

Answer Key

Grade 3

Siegfried Engelmann Susan Hanner



Columbus, Ohio

## **SRAonline.com**



Copyright © 2008 by SRA/McGraw-Hill.

All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written consent of The McGraw-Hill Companies, Inc., including, but not limited to, network storage or transmission, or broadcast for distance learning.

Printed in the United States of America.

Send all inquiries to this address: SRA/McGraw-Hill 4400 Easton Commons Columbus, OH 43219

ISBN: 978-0-07-612587-6 MHID: 0-07-612587-4

9 10 11 12 13 MAZ 22 21 20 19 18

Name\_

A

- 1. What's the name of geese that are all white? Snow geese
- 2. What's the name of geese that are gray and black and white? Canada aeese
- 3. Both geese and ducks are water birds, but  $\ensuremath{\mbox{\ensuremath{\mbox{geese}}}}$ are a lot bigger.
- 4. You can tell male geese from female geese because
  - male geese have brighter colors
  - · male geese are larger
  - · male geese have longer feathers
- 5. What color are all geese when they are born? **yellow**
- 6. How old are geese when they mate for the first time? 3 (years old)
- 7. After male and female geese mate, they stay together
  - for the summer for a full year until one goose dies

#### Story Items

- 8. Most geese live for about <u>30</u>
- 9. How old was Old Henry? 35 (years old)
- 10. What was the name of the lake the flock stayed at during the summer? Big Trout Lake
- 11. In which season did the flock leave the lake? fall
- 12. In which direction did the flock fly? **South**
- 13. How far was the flock going? two thousand miles

© SRA/McGraw-Hill. All rights reserved

## **WORKBOOK**

Name\_

- 1. Make an R on Big Trout Lake.
- 2. What country is the R in? Canada
- 3. Make an F on Crooked Lake.
- 4. Which lake is farther north? Big Trout Lake
- 5. Make a Y next to the lake that freezes in the winter.



- 6. Geese live in large groups called **flocks**
- 7. In what country are most wild geese born? Canada
- 8. Where do these geese spend every summer? Canada
- 9. In which direction do the geese fly in the fall? **South**
- 10. What is this trip called?
  - mating • migration

hibernation

**WORKBOOK** 

- 14. Who didn't want to make the trip? (Old) Henry
- 15. He said that he was too **Ideas: old, tired** to fly so far.
- 16. What will happen to Big Trout Lake during the winter? Idea: It will freeze.



### **WORKBOOK**

- 11. Why do the geese leave Canada in the fall?
- 12. Every fall, Old Henry's flock went to the state of **Florida**
- Story Items
- 13. Henry first mated with his wife when they were both three (3)
- 14. Henry's wife had died five (5) years ago.
- 15. How had Henry felt ever since she had died?
  - free
- tired
- lonely
- 16. After the flock had been gone for nine (9) \_\_\_\_ days, Henry saw another goose.
- 17. Was that goose old or young? Young
- 18. The goose told Henry, "I couldn't learn to fly because ..."
  - my leg was hurt
  - · my wing was hurt
  - · I was too small
- 19. When geese learn to fly, do they start in the water or on the land? on the land
- 20. They run with their wings \_\_\_ out to the side.

GO TO PART D IN YOUR TEXTBOOK.

supposed to be on your way to Florida."

The young goose said. "Oh. I couldn't learn to fly because my leg was hurt."

Old Henry knew about that problem. When young geese learn to fly, they start out by running faster and faster. They hold their wings out to the side as they run.

Then they flap their wings and fly. But if they can't run fast, they can't fly. Later, geese learn to take off from the water, but that's not the first thing they learn about flying.

"Well," Henry said. "If you don't have anything better to do, swim out here and join me. I would be glad to have your company."

#### Number your paper from 1 through 11. **Review Items**

- 1. What's the name of geese that are gray and black and white?
- 2. What's the name of geese that are all white? Snow geese
- 3. What color are all geese when they are born? yellow
- 4. You can tell male geese from female geese because
  - · male geese have brighter colors
  - · male geese have longer feathers
  - · male geese are larger
- 5. How old are geese when they mate for the first time? 3 (years old)
- 6. After male and female geese mate, they stay together
  - · for the summer
  - · for a full year
  - · until one goose dies
- 7. Most geese live for about years. 30
- 8. What was the name of the lake where Henry's flock stayed during the summer? Big Trout Lake
- 9. In which season did the flock leave the lake? fall
- 10. In which direction did the flock fly? **South**
- 11. How far was the flock going? 2 thousand miles

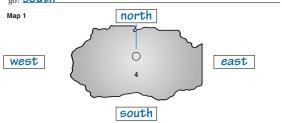
#### Canada geese

### **WORKBOOK**

Name

A

- 1. Write the directions **north**, **south**, **east** and **west** in the boxes on map 1.
- 2. In which direction do geese migrate in the fall? **South**
- 3. In which direction do geese migrate in the spring? north
- 4. Make a line that starts at the circle on the map and goes north.
- 5. If you start at the circle and move to the number 4, in which direction do you go? south



Look at map 2 on the next page.

- 6. What country is the A in? Canada
- 7. What country is the B in? United States
- 8. What state is the B in? Florida
- 9. If you started at the B and went to the A, in which direction would you go? north

## **WORKBOOK**



#### Story Items

- 10. What was the name of the young goose? Tim
- 11. When was that goose born? Ideas: In June; several

#### months earlier

- 12. How old was he?
- · less than half a year

• run

GO TO PART D IN YOUR TEXTBOOK.

- · more than half a year
- 13. When young geese learn to fly, they hold their wings out as they
- 14. Tim couldn't learn to fly because he couldn't LUI
- 15. Was his leg still hurt? 10

· more than a year

- 16. Underline the 2 things that Henry said he would do for Tim.
  - show him how to stay warm
- build a warm house for him
- fly with him to Florida
- tell him how to get to Florida
- · teach him how to fly
- © SRA/McGraw-Hill. All rights reserved

## **TEXTBOOK**

Number your paper from I through I3.

#### Review Items

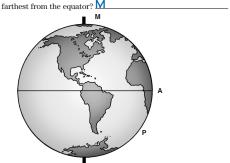
- 1. What's the name of geese that are all white?  ${\bf SNOW}$   ${\bf geese}$
- 2. What's the name of geese that are gray and black and white?
- 3. What color are all geese when they are born? yellow
- 4. How old are geese when they mate for the first time?
- 5. After male and female geese mate, how long do they stay together? Idea: until one goose dies
- 6. Most geese live for about years. 30
  7. Geese live in large groups called flocks
- 8. Where are most wild geese born? Canada
- 9. In which direction do geese fly in the fall? South
- 10. What is this trip called?
  - migration
  - mating hibernation
- 11. How had Henry felt ever since his wife had died? lonely
- 12. When geese learn to fly, do they start in the water or on the land? On the land
- 13. They run with their out to the side. **Wings**
- 2. Canada geese
- 4. 3 (years old)

Name.

A

Look at the map below.

- 1. What's the name of the place shown by the letter A? equator
- Which letter shows the coldest place? <a>M</a>
- Which letter shows the hottest place? A
- 4. Which letter is farthest from the equator? M



- 5. The earth is shaped like a ball
- 6. The hottest part of the earth is called the
  - pole desert
- 7. What's the name of the line that goes around the fattest part of the earth?
- <u>equator</u>
- 8. What's the name of the spot that's at the top of the earth? North Pole

© SRA/McGraw-Hill. All rights reserved

#### **WORKBOOK**

- 9. What's the name of the spot that's at the bottom of the earth?
  - South Pole
- 10. The pole s are the coldest places on the earth and the equator is the hottest place on the earth.
- 11. How many poles are there? 2
- 12. Are the equator and the poles real marks on the earth or pretend marks? <u>pretend marks</u>
- 13. The farther you go from the equator, the it gets.
  - colder fatter hotter

#### Story Items

- 14. Henry taught Tim to fly. Tim was supposed to run down the hill and hold his **wings** out to the side.
- 15. What was Tim supposed to do when Henry honked? Idea: start flapping his wings
- 16. Did Tim take off the first time he tried? **YES**
- 17. Did he keep on flying? 10

**WORKBOOK** 

Name

A

- 18. Why? Ideas: He got scared; he stopped flapping.
- 19. Did Tim do better the second time he tried? **YES**
- 20. How high did the geese fly? Idea: More than a mile high
- 21. Where did they land? Ideas: In the water; on Big Trout Lake
- 22. Who was going too fast when they landed? Tim

GO TO PART D IN YOUR TEXTBOOK.

SRA/McGraw-Hill. All rights reserve

TEXTBOOK

he landed with a great splash. Both

geese laughed. Tim shouted, "I can

"You sure can," Henry said.

Choose from these words to answer each item

- Florida • moon · equator • pole • Canada migration • sun
- 1. The heat that the earth receives comes from the Sun
- 2. The part of the earth that receives more heat than any other part is the
- 3. The parts of the earth that receive less heat than any other part are called the poles

Story Items

© SRA/McGraw-Hill. All rights reserved

- 4. How many days did Tim practice flying? three (3)
- 5. When Tim flew in the direction that felt best, in which direction did he fly? south
- 6. How much of the lake was frozen by the end of the third day that Tim practiced?
  - · almost all • half
- 7. How much of the lake did Henry think would be frozen by the next morning?
- 8. Was Tim able to understand what Henry explained about the landing
- 9. How many landing places are there on the trip to Florida? five (5)
- 10. The first landing place is a field next to a pond
- 11. That landing place has two (2) barns on it.

also made a landing, but it was not perfect. He was going too fast, and

Number your paper from 1 through 11. **Review Items** 

- You can tell male geese from female geese because
  - male geese are larger
  - male geese have brighter colors
  - male geese have longer feathers
- 2. What was the name of the lake where Henry's flock stayed during the summer? Big Trout Lake
- 3. In which season did the flock leave the lake? fall
- 4. In which direction did the flock fly? **South**
- 5. How far was the flock going? 2 thousand miles
- 6. Geese live in large groups called . flocks
- 7. Where are most wild geese born? Canada

Look at the map.

- 8. What country is the red dot in?
- 9. What country is the blue dot in?
- 10. What **state** is the blue dot in?
- 11. If you started at the red dot and went to the blue dot, in which direction would you go?



8. Canada Lesson 4 9. United States 10. Florida 11. south

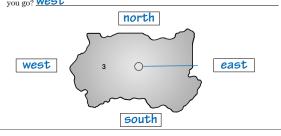
#### Skill Items

The horses became restless on the dangerous route.

- 12. What word tells about how you get to a place? **route**
- 13. What word tells how you feel when you want to do something different?

#### **Review Items**

- 14. In which direction do geese fly in the fall? **South**
- 15. What is this trip called? migration
- 16. In which direction do geese fly in the spring? north
- 17. Write the directions **north**, **south**, **east** and **west** in the boxes.
- 18. Make a line that starts at the circle on the map and goes east.
- If you start at the circle and move to the number 3, in which direction do you go? West



GO TO PART D IN YOUR TEXTBOOK.

. .

SRA/McGraw-Hill. All rights reserv

#### **TEXTBOOK**

Number your paper from 1 through 16.
Review Items

Look at the map below.

- 1. What country is the green dot in? Canada
- 2. What country is the purple dot in? United States
- 3. What state is the purple dot in? Florida
- If you started at the purple dot and went to the green dot, in which direction would you go? North



- 5. The earth is shaped like a . ball
- 6. The hottest part of the earth is called the
  - pole desert equator
- 7. What's the name of the line that goes around the fattest part of the earth? **equator**
- 8. What's the name of the spot that's at the top of the earth?
- 9. What's the name of the spot that's at the bottom of the earth?
- 10. The same same the coldest places on the earth and the the hottest place on earth. **pole**, **equator**
- 11. How many poles are there? 2

18 Lesson 5

8. North Pole 9. South Pole

## **TEXTBOOK**

- 12. The farther you go from the equator, the it gets.
  - hotter
- fatter
- colder

Look at the map below.

- 13. What's the name of the place shown by the letter C? North Pole
- 14. Which letter shows the coldest place? C
- 15. Which letter shows the hottest place?
- 16. Which letter is farthest from the equator?  ${\cal C}$



## **WORKBOOK**

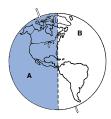
Name \_\_\_\_\_\_\_.

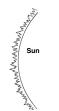
1. The sun shines \_\_\_\_\_.

- nes \_\_\_\_\_.
  - some of the time
- all of the time
- 2. Can you see the sun all day long and all night long? 10
- Can you see the sun and ay long and an light long: 
   If you can see the sun, you are on the side of the earth that is
  - closer to the sun
     farther from the sun
- 4. If you can see the sun, it is on your side of the earth.
  - nighttime daytime
- 5. What is it on the other side of the earth? nighttime

Look at the picture.

- 6. Shade the part of the earth where it is nighttime.
- 7. Which side of the earth is closer to the sun, A or B?
- 8. Which side of the earth is in nighttime?
- 9. Which side of the earth is in daytime? **B**





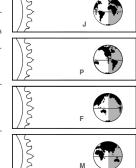
10. The earth turns around one time every 24 hours

10. The carti taris around one time every \_\_\_\_\_\_n

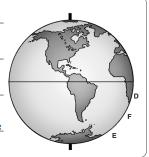
aw-Hill. All rights reserved.

Lesson 6

- 11. Write the letter of the earth that shows the person in daytime.  $\underline{J}$
- 12. Write the letter of the earth that shows the person 6 hours later.
- 13. Write the letter that shows the person another 6 hours later. **E**
- 14. Write the letter that shows the person another 6 hours later.



- 15. Which letter shows the place that has the warmest winters?
- 16. Which letter shows the place that is closest to the equator?
- 17. Which letter shows the place that is closest to a pole?
- 18. Is the North Pole or the South Pole closer to that letter? South Pole



GO TO PART D IN YOUR TEXTBOOK.

#### TEXTBOOK



Number your paper from 1 through 20.

#### **Story Items**

- 1. Where did Henry and Tim spend their last night at Big Trout Lake?
  - ullet on the water ullet in a barn ullet in the woods
- 2. In the morning, Henry told Tim that he would
  - · tell Tim more about the trip
  - fly part of the way with him
- 3. Henry told Tim, "Don't land where you see geese."
  - many • a few
- 4. Write the letters of the 2 kinds of places that are safe for geese.
  - a. places with many geese
  - b. places with no geese or ducks
  - c. places with a few geese
  - d. places with a few ducks
- 5. When the two geese flew over the landing place, did Tim recognize it? 110
- 6. After they landed, which goose was attacked? Tim
- 7. What attacked that goose? a fox
- 8. What did Henry do? Ideas: bit the fox on the neck and ears; attacked the fox

### **TEXTBOOK**

#### a full-grown goose

- 9. Which is a better fighter, a full-grown goose or a fox?
- 10. After the fight, Henry had a sore . Wing

#### **Review Items**

#### 3 (years old)

- 11. How old are geese when they mate for the first time?
- 12. After male and female geese mate, how long do they stay together? until one goose dies
- 13. Most geese live for about years. 30

Choose from these words to answer each item:

- Florida geese

- poles

- 14. The heat that the earth receives comes from the ......... Sun
- 15. The part of the earth that receives more heat than any other part is the equator
- 16. The parts of the earth that receive less heat than any other part are called the poles
- 17. Which letter shows the part of the earth that receives more heat from
- 18. Which letter shows a part of the earth that receives less heat from the sun than any other letter?



- How many landing places are there on Henry's migration trip to Florida?
- 20. Was Tim able to understand what Henry explained about the landing places? 10
- Lesson 6

## **WORKBOOK**

Name

1. Which letter on the map shows Big Trout Lake?

2. Which letter shows the landing place in Kentucky?

3. Which letter shows the landing place in Michigan? B

4. Which letter shows the landing place in Florida?

5. Which letter shows the landing place in



6. Which letter shows Crooked Lake?

7. Which letter shows the first landing place?

8. Which letter shows the second landing place?

9. Draw the path the geese take on their migration south.

#### Story Items

10. Did Henry tell Tim about his sore wing? 10.

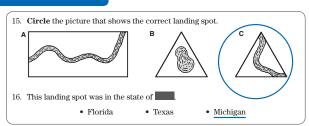
11. He got a sore wing when he fought with the/a fox

12. Henry told Tim about the next landing place. He also made a • mess • story • map

13. Did Tim recognize the next landing spot? 10

14. So what did Henry do?

© SRA/McGraw-Hill. All rights reserved



17. Was Tim able to tell Henry how to get back to the first landing place?

18. What did the two geese see on the second day they were at the triangle-

#### Idea: another flock of geese

- 19. Was that flock going to Florida or Mexico? Mexico
- 20. When Tim and Henry left Big Trout Lake, Henry had planned to take Tim to the first 3 \_\_\_ landing places.
- How far? Idea: all the way to Florida
- 22. Was Henry sure that he would be able to fly that far with Tim?

GO TO PART D IN YOUR TEXTBOOK.

### TEXTBOOK

went to that place. So somebody would have to lead him all the way to Florida. Henry's problem was that his wing felt worse than ever. Henry didn't know how much more of the trip he would be able to make.

Tim and Henry rested a second day. That day was the first time they saw another flock of geese. The flock formed a great V in the sky. Both Henry and Tim had eyes far sharper than human eyes. So they were able to see all the geese in that flock. Henry said, "There must be

more than 60 geese in that flock."

"Are they going to the same place we're going?" Tim asked.

"No," Henry said. "They are heading a little bit to the west, so they are probably going to Mexico."

Tim asked, "Have you ever been to Mexico?"

Henry said, "No. The only place I've ever gone in the winter is to Crooked Lake in Florida. And that's what you'll do. Every year, you'll fly to Crooked Lake. Then in the spring you'll go back to Canada."

Number your paper from 1 through 13.

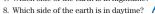
### **Review Items**

#### 3. nighttime

- 1. The sun shines
  - all of the time • some of the time
- 2. Can you see the sun all day long and all night long? No
- 3. If you cannot see the sun, it is on your side of the earth.
- 4. What is it on the other side of the earth? daytime 5. The earth turns around one time every hours. 24

Look at the picture.

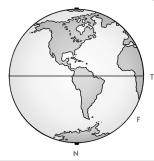
- 6. Which side of the earth is closer to the sun, A or B?
- 7. Which side of the earth is in nighttime?





## **TEXTBOOK**

- Which letter shows the place that has the warmest winters?
- 10. Which letter shows the place that is closest to the equator?
- 11. Which letter shows the place that is closest to a pole?
- 11. Which letter shows the place that is caused 12. Is the **North Pole** or the **South Pole** closer to that letter? **South Pole**



13. Write the letters of the 2 kinds of places that are safe for geese. 2, C

- a. places with many geese
- b. places with a few geese
- c. places with no geese or ducks
- d. places with a few ducks

## **WORKBOOK**

Name Story Items

1. How many Great Lakes are there? 5 (five)

2. Color the Great Lakes on the map



© SRA/McGraw-Hill. All rights reserved

#### Review Items

- 3. Which letter on the map below shows the landing place in Kentucky? M\_\_\_\_
- 4. Which letter shows Big Trout Lake?
- 5. Which letter shows the landing place in Michigan? Z
- Which letter shows the landing place in Canada? X
- 7. Which letter shows the landing place in Florida? K
- 8. Which letter shows Crooked Lake? K
- 9. Which letter shows the first landing place? X
- 10. Draw the path that the geese in Henry's flock take on their migration south.



GO TO PART D IN YOUR TEXTBOOK.

16 Lesson 8

© SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

## Number your paper from 1 through 28.

- 1. How many heat lines are hitting place A on the map? 10
- 2. How many heat lines are hitting place B?
- 3. How many heat lines are hitting place C? 4
- 4. Write the letter of the place that's the hottest.
- 5. Write the letter of the place that's the coldest. C
- Write the letter of the place that has the warmest winters.
- 7. Write the letter of the place that's the farthest from the equator.  $m{\mathcal{C}}$



#### **Story Items**

- 9. About how far was it from the landing place in Michigan to the one in Kentucky? a little more than 300 miles
- 10. How did Henry feel by the end of that trip?
- 11. Which goose wanted to land at the regular landing place in Kentucky?  $\mbox{\em Henry}$
- 12. What kept them from landing there?
  - · The lake was frozen.
  - · Hunters were at that landing place.
  - Too many geese were at that landing place.

13. Henry and Tim landed at a place that was about \_\_\_\_ miles away. 5

10. Ideas: His wing was very sore; tired

. . . . .

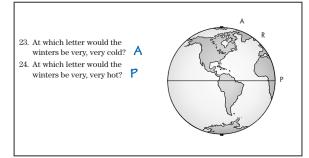
33

#### **TEXTBOOK**

- 14. Did Henry plan to stay at this landing place **one day** or **two days**? **two days**
- 15. Another landed at the landing place the next day. flock
- 16. How many geese were in that flock?
- 17. Where was that flock going? Florida; Reedy Lake
- 18. That flock spent summers on one of the
- 19. Henry asked if could fly with that flock. Tim
- 20. Did the leader of that flock think this plan was okay? Yes

#### **Review Items**

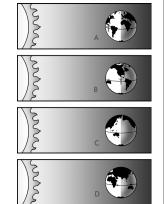
- 21. In which direction do geese fly in the fall? South
- 22. What is this trip called? migration



- 16. more than eighty geese
- 18. big lakes

### **TEXTBOOK**

- 25. Write the letter of the earth that shows the person in daytime.
- 26. Write the letter of the earth that shows the person 6 hours later.
- 27. Write the letter that shows the person another 6 hours later.  ${\color{red}C}$
- 28. Write the letter that shows the person another 6 hours later.



34 Lesson

Name

The earth makes a circle around the sun one time every

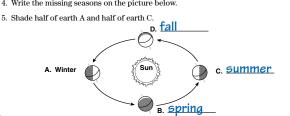
• hour • day • year

2. How many days does it take the earth to make one full circle around the sun?

winter, spring, 3. Fill in the blanks to show the four seasons.

summer, fall, winter\_\_\_, spring, summer\_,fall

4. Write the missing seasons on the picture below.



#### Story Items

- 6. When Tim and Henry were in Kentucky, did Henry want to fly farther south? 10
- 7. Tim said he'd fly with the flock if Henry would fly with them
- 8. Was it easier or harder to fly with a large flock? @asier
- 9. Were Tim and Henry **near** or **far** from the point of the V? **far**
- 10. Flying near the back of a large flock is like riding your bike

• with the wind

· against the wind

17

### **WORKBOOK**

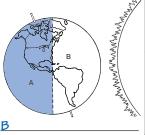
- 11. Look at the picture. Write H on the goose that has to work the hardest.
- 12. Color the air that is moving in the same direction the flock is moving.



#### **Review Items**

Look at the picture.

- 13. Shade the part of the earth where it is nighttime.
- 14. Which side of the earth is closer to the sun, A or B? **B**
- 15. Which side of the earth is in nighttime?
- 16. Which side of the earth is in daytime?





18. Color the Great Lakes on the map.



GO TO PART D IN YOUR TEXTBOOK.

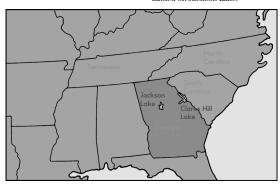
#### **TEXTBOOK**

Henry said, "I don't know. This is not on the route I've taken. We always land at Clarks Hill Lake, It's much bigger than this lake and it's farther east.'

Then Henry asked the old goose behind him, "What's the name of that lake?"

"Jackson Lake."

About ten minutes later the flock landed on Jackson Lake.



Number your paper from 1 through 19.

#### **Story Items**

- 1. Henry noticed that his wing felt because it didn't have to work very better, hard
- 2. What's the name of the lake where the flock landed?  $Jackson\ Lake$
- 3. In what state is that lake? Georgia
- 4. Had Henry landed there before? No
- 5. At what lake did Henry's flock usually land? Clarks Hill Lake
- 6. Which lake is farther east? Clarks Hill Lake
- 7. Do you think Henry will be able to continue flying south with the flock? yes
- 40 Lesson 9

## **TEXTBOOK**

#### Review Items

- 8. What's the name of the line that goes around the fattest part of  $\frac{1}{2}$ the earth? equator
- 9. What's the name of the spot that's at the top of the earth?
- 10. What's the name of the spot that's at the bottom of the earth?
- 11. Write the letters of the 2 kinds of places that are safe for geese.  $\boldsymbol{a}, \boldsymbol{c}$ 
  - a. places with many geese
  - b. places with a few geese
  - c. places with no geese or ducks d. places with a few ducks
- 12. How many heat lines are hitting place A on the map?
- 13 How many heat lines are hitting place B?
- 14. How many heat lines are hitting place C? 4
- Write the letter of the place that's the hottest. A
- Write the letter of the place that's the coldest.
- 17. Write the letter of the place that has the warmest winters. A
- 19. Why is place A hotter than place C?



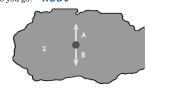
- 9. North pole 10. South Pole
- 19. Idea: It has more lines of heat.

10

TEST 1

Number your paper from 1 through 35.

- 1. How old are geese when they mate for the first time? 3 years old
- After male and female geese mate, how long do they stay together? until one goose dies
- 3. Most geese live for about years. 30
- 4. In which direction do geese migrate in the fall? South
- 5. In which direction do geese migrate in the spring? north
- 6. Write the letter of the line that starts at the circle on the map and goes south.  $\ensuremath{\beta}$
- 7. If you start at the circle and move to the number 2, in which direction do you go? **west**



- 8. Which side of Earth 1 is closer to the sun, A or B?  ${\mbox{\cite{B}}}$
- 9. Which side of Earth 1 is in nighttime?
- 10. Which side of Earth 2 is in nighttime?



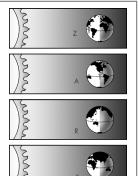




Lesson 10

## **TEXTBOOK**

- 11. Write the letter of the earth that shows the person in daytime.
- 12. Write the letter of the earth that shows the person 6 hours later.
- 13. Write the letter that shows the person another 6 hours later.
- 14. Write the letter that shows the person another 6 hours later.



- 15. Which letter on the map shows Big Trout Lake?
- 16. Which letter shows the landing place in Kentucky? 5
- 17. Which letter shows the landing place in Michigan?
- 18. Which letter shows the landing place in Florida?
- 19. Which letter shows the landing place in Canada?
- 20. Which letter shows Crooked Lake?  $\mathsf{M}$
- 21. Which letter shows the first landing place?



Lesson 10

43

#### **TEXTBOOK**

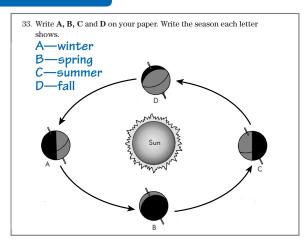
- 22. How many heat lines are hitting place X on the map? 1
- 23. How many heat lines are hitting place K? 4
- 24. How many heat lines are hitting place T?  $\,\,$  8
- 25. Write the letter of the place that's the hottest.
- 26. Write the letter of the place that's the coldest.  $\,$   $\,$   $\,$
- 27. Write the letter of the place that has the warmest winters.
- 28. Write the letter of the place that's farthest from the equator. K
- 29. Why is place T hotter than place K?



- 30. How many Great Lakes are there? five (5)
- 31. The earth makes a circle around the sun one time every  $\hfill \hfill \hfi$
- 32. How many days does it take the earth to make one full circle around the sun? 365

#### 29. Idea: It has more lines of heat.

## **TEXTBOOK**



Skill Items

For each item, write the underlined word from the sentence in the box

The horses became <u>restless</u> on the dangerous <u>route</u>.

- 34. What word tells how you feel when you want to do something different? restless

END OF TEST 1

Lesson 10

Name\_



- 1. Write the number of the earth that has the North Pole tilting away from the
- 2. Write the number of the earth that has the North Pole tilting toward the sun. <u>7</u>
- 3 Write the number of the earth that has darkness all around the North Pole
- 4. Write the number of the earth that has daylight all around the North Pole.

8. fall Write which season each earth in the picture shows. 5. winter 7. summer <u>spring</u>

9. The picture shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







10. During winter at the North Pole, how often does the sun shine? · all the time

• never

### **WORKBOOK**

- 11. During summer at the North Pole, how often does the sun shine? • never · all the time
- 12. What season is it at the North Pole when the North Pole tilts toward the sun? SUMMer
- 13. What season is it at the North Pole when the North Pole tilts away from the sun? winter

#### Story Items

- 14. The flock started out at Jackson Lake in the state of Georgia
- 15. The flock landed at Newmans Lake in the state of Florida
- The flock rested for 2 days.
- 17. Then the flock flew to **Crooked** Lake in the state of **Florida**
- 18. The flock they were flying with went on to  $\frac{Reedy}{}$
- 19. **Underline** the geese Tim was looking forward to seeing.
  - $\bullet$  friends • dad grandchildren
- 20. Underline the geese Henry was looking forward to seeing.
- children • friends • dad • grandchildren
- 21. What was Henry going to miss? flying with Tim

#### Review Items

- 22. Write  ${\bf H}$  on the goose in the picture that has to work the hardest
- 23 Color the air that is moving in the same direction the flock is moving.



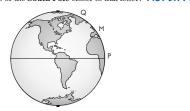
GO TO PART D IN YOUR TEXTBOOK.

## **TEXTBOOK**

Number your paper from 1 through 16. Review Items

#### Canada geese

- 1. What's the name of geese that are gray and white and black?
- 2. What's the name of geese that are all white? Snow geese
- 3. What color are all geese when they are born? yellow
- 4. Geese live in large groups called . flocks
- 5. Where are most wild geese born? Canada
- 6. If you cannot see the sun, it is on your side of the earth.
- 7. What is it on the other side of the earth? daytime
- 8. The earth turns around one time every hours. 24
- 9. Which letter shows the place that has the warmest winter? 10. Which letter shows the place that is closest to the equator?
- 11. Which letter shows the place that is closest to a pole?
- 12. Is the North Pole or the South Pole closer to that letter? North Pole



- 13. The earth makes a circle around the sun one time every \_\_\_\_\_\_.
- 14. How many days does it take the earth to make one full circle around the sun?  $365\,$
- 15. Is it easier to fly alone or with a large flock? with a large flock

· against the wind

- 16. Flying near the back of a large flock is like riding your bike
- with the wind 6. nighttime
- Lesson 11

## **WORKBOOK**

Name

mom

• mom

A

- 1. Which letter on the map shows Alaska? 💆
- 2. Which letter shows Canada? **E**
- 3. Which letter shows the main part of the United States?  $\mathbb{K}$
- 4. Which 2 letters show where Eskimos live? J and E
- 5. How warm is it during winter in Alaska? Idea: very cold



Look at the picture below. Write the name of each of these objects in the correct place:

- Eskimo · sled dogs
- · fishing pole
  - fishing spear
- sled kayak



© SRA/McGraw-Hill. All rights reserved

Lesson 12

- 12. What kind of boat do Eskimos use in the summer? kayak
- 13. Why don't they use those boats in the winter? Ideas: because the water is frozen; because of ice floes;

## because the winds are too strong

## Story Items

- 14. Who met Tim at Crooked Lake? his mom and dad
- 15. Why were they surprised to see Tim? Idea: They didn't think they
- would see him again.

  16. The first geese to greet Henry were his **friends**
- Were Henry's children, grandchildren and great grandchildren in the same flock as Henry? 110
- 18. In the winter, Henry gave the young geese practice in flying in a  $\underline{V}$
- 19. The flocks started to fly north again in the month of January
- 20. They did not arrive at Big Trout Lake until the month of April
- 21. So it took them 3 or 4 \_\_\_\_\_ months to make the trip north.
- 22. After the flocks arrived at Big Trout Lake, Tim and the other young geese left the flock.
- 23. How old were all these geese? Idea: almost a year old
- 24. Where did those geese move to? Sandy Lake
- 25. What lake would this flock go to in the fall? Crooked Lake

#### Review Item

26. The picture shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







GO TO PART D IN YOUR TEXTBOOK.

C SRA/McGraw-Hill. All rights reserv

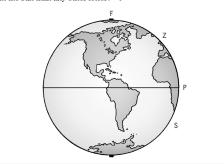
### **TEXTBOOK**

## Number your paper from 1 through 11.

**Review Items** 

on the land

- 1. When geese learn to fly, do they start in the water or on the land?
- 2. They run with their out to the side. Wings
- 3. Which letter shows the part of the earth that receives more heat from the sun than any other letter?
- 4. Which letter shows a part of the earth that receives less heat from the sun than any other letter?



- 5. The sun shines
- · some of the time
- ullet all of the time
- 6. Can you see the sun all day long and all night long? 10
- 7. Write the letters of the 2 kinds of places that are safe for geese.  $\mathbf{a}, \mathbf{c}$ 
  - a. places with many geese
  - b. places with a few ducks
  - c. places with no geese or ducks
- d. places with a few geese

Lesson 12

57

## **TEXTBOOK**

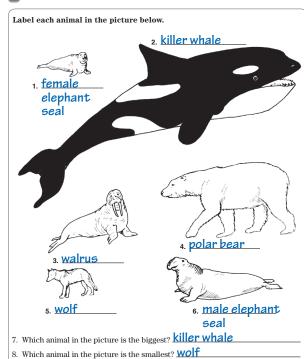
- 8. During winter at the North Pole, how much does the sun shine?
  - never all th
- 9. During summer at the North Pole, how much does the sun shine?
  - $\bullet$  never
- all the time
- 10. What season is it at the North Pole when the North Pole tilts toward the sun? **Summer**
- 11. What season is it at the North Pole when the North Pole tilts away from the sun? **winter**

## **WORKBOOK**

Name \_\_\_\_\_

13

A



© SRA/McGraw-Hill. All rights reserved

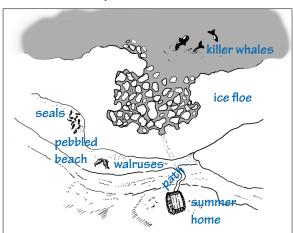
Lesson 13

**3** 

#### Write these words in the correct places on the map.

9. pebbled beach 11. summer home 15. walruses

10. killer whales 12. path 14. seals



16. At the end of summer, the beach where Oomoo lived was different from the picture in 3 ways. What was different about the ice floe?

#### Idea: The ice floe melted.

- 17. What was missing from the water? killer whales
- 18. What was missing from the beach? Seals and walruses

GO TO PART E IN YOUR TEXTBOOK.

### TEXTBOOK

(Number your paper from 1 through 22.

#### Story Items

- 1. When days get longer, is the North Pole tilting toward the sun or away from the sun? toward the sun
- 2. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 3. Oomoo and Oolak might have a hard time going to sleep at night in the summertime. Tell why.
- 4. In April, the sun shines for more than hours each day in Alaska. 12
- 5. What kind of animal did Oomoo see at the end of the story? polar bear
- 6. How far was Oomoo from that animal? Idea: no more than
- 7. During Oomoo's winter, there is no three meters

 daytime nighttime

- 8. Write the letter of the globe that shows how the earth looks on the first day of winter.
- 9. Write the letter of the globe that shows how the earth looks on the first day of summer.







#### 3. Idea: because the sun shines all the time

## **TEXTBOOK**

#### Review Items

- 10. Write the number of the earth that has the North Pole tilting away from the sun. 14
- 11. Write the number of the earth that has the North Pole tilting toward the sun. 16
- 12. Write the number of the earth that has darkness all around the North Pole. 14
- 13. Write the number of the earth that has daylight all around the North Pole. 16

Write which season each earth in the picture shows.



- 18. How warm is it during winter in Alaska? Idea: very cold
- 19. Which letter on the map shows Alaska?
- 20. Which letter shows Canada?
- 21. Which letter shows the main part of the United States? X
- 22. Which 2 letters show where Eskimos live?



## **WORKBOOK**

Name A

- 1. In what season are animals most dangerous in Alaska? **Spring**
- 2. During what season do female animals in Alaska have babies? **Spring**
- 3. Female animals fight in the spring to protect their babies
- 4. Name 2 kinds of Alaskan animals that are dangerous in the spring. <u>Ideas: polar bears, wolves, walruses</u>

#### Story Items

Idea: Hunters shot

- 5. What had happened to Usk's mother? her (three years ago).
- 6. When Oomoo first saw Usk, Usk was no bigger than a puppy
- 7. About how tall was Usk when he stood up now? three meters
- 8. Oomoo's father said, "Full-grown bears are not ..."
  - cubs • pets
- 9. Usk had become less playful last fall
- 10. Oomoo didn't run up and hug Usk because she remembered what her father
- 11. What did Oolak throw at Usk? a snowball
- 12. Why did Oolak do that? Idea: He wanted to play with Usk.

#### Skill Items

#### Scientists do not ignore ordinary things.

- 13. What word means that you don't pay attention to something? ignore
- 14. What word tells about things that you see all the time? ordinary
- 15. What do we call highly-trained people who study different things about the world? scientists

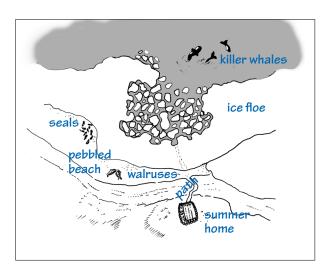
© SRA/McGraw-Hill. All rights reserved

#### Review Items

Write these words in the correct places on the map.

16, ice floe 19. walruses 21. path 17. summer home 20. pebbled beach 22. seals

18. killer whales



GO TO PART D IN YOUR TEXTBOOK.

### TEXTBOOK

Number your paper from 1 through 16. **Review Items** 

Choose from these words to answer each item:

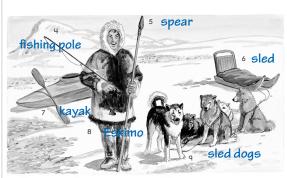
- Canada Florida
- equator migration poles
- moon geese
- 1. The heat that the earth receives comes from the Sun 2. The part of the earth that receives more heat than any other part is the
- equator 3. The parts of the earth that receive less heat than any other part are called the poles

Write the name of each numbered object in the picture. Choose

- from these names:
  - fishing pole spear
- Eskimo







#### **TEXTBOOK**

- 10. When days get longer, is the North Pole tilting  ${\bf toward}\ {\bf the}\ {\bf sun}$ or away from the sun? toward the sun
- 11. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 12. In April, the sun shines for more than hours each day in Alaska. Alaska.
- 13. Which globe shows how the earth looks on the first day of
- 14. Which globe shows how the earth looks on the first day of summer?  $\mbox{\sc F}$





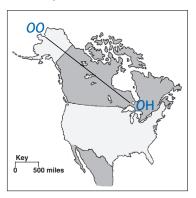


- 15. What kind of boat do Eskimos use in the summer? kayak
- 16. Why don't they use those boats in the winter? Ideas: because the water is frozen; because of the ice floes; because the winds are too strong

## **WORKBOOK**

Name

- 1. What state is at the north end of the route on the map? Alaska
- 2. What country is at the south end of the route?  $\underline{\text{Canada}}$
- 3. About how many miles is the route? 2.500
- 4. Write OO where Oomoo and Oolak lived.
- 5. Write **OH** where Old Henry lived in the summertime.



Story Items

6. What happened when Usk nudged Oolak with his nose?

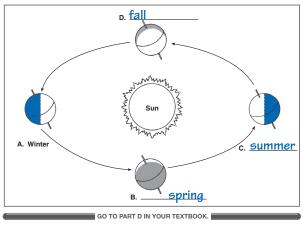
ldea: Oolak fell down. © SRA/McGraw-Hill. All rights reserved

- 7. Usk started chasing Oomoo after Idea: Oomoo hit him with a snowball.
- 8. When Usk caught up to Oomoo, what did he grab?
  - boot collar
- 9. Then what did Usk do to Oomoo? Idea: He pushed her over.
- 10. Who made the children stop playing? their father
- 11. When Oomoo reached her father, she didn't look at him. Why?

  Idea: because she knew he was upset with her.
- 12. Will the father let the children play with Usk? 10

#### Review Items

- 13. Write the missing seasons on the picture below.
- 14. Shade half of earth A and half of earth C.



## **TEXTBOOK**

Use the words in the box to write complete sentences.

	ignore playful	splat scie	route	Eskimos restless	ordinary constant	
ĺ	4. The horses			e dangerous	restles	ss, route ordinary

#### Review Items

- 6. In which direction do geese fly in the fall? South
- 7. What is this trip called? migration
- 12. The farther you go from the equator, the it gets.

   colder fatter hotter
- 13. At which letter would the winters be very, very cold?

  14. At which letter would the winters be very, very hot?

  R

**TEXTBOOK** 

slide in a great circle and then turn over, tossing Oomoo and Oolak into the snow. Sometimes Usk would . . . "Oomoo." her father shouted.

Oomoo stopped thinking of sledding with Usk and looked up on the top of the hill, where her father was standing. "Oomoo," he shouted again. "Oolak, come here now." Oomoo and Oolak scrambled up the slope through the wet snow.

The top of the hill was free of snow. Oomoo stamped the snow from her feet and looked down. She did not want to look at her father. She could feel that he was looking at her "Oomoo, I am ashamed of you," he said. "What season of the year is it?" Oomoo answered quietly.

Her father said, "And in what season are bears the most dangerous?"

"Spring," she said.

"And what did I tell you about playing with Usk?"

Oomoo replied, "We should not go near him."

Her father said, "If you cannot stay away from that bear, you will have to stay where he will not go."

## Number your paper from 1 through 20.

#### Skill Items

Here are three events that happened in the story:

- a. Her father said, "And in what season are bears the most dangerous?"
- b. Oolak got to his feet and started to stumble through the pebbles.
- With his big pink tongue hanging out, he looked like a great big white dog.
- 1. Write the letter of the event that happened near the beginning of the story.  $\mbox{\sl b}$
- 2. Write the letter of the event that happened near the middle of the story.  ${\it C}$
- 3. Write the letter of the event that happened near the end of the story.

76 Lesson 1

#### **TEXTBOOK**

- 15. Is it easier to fly alone or with a large flock? with a large flock
- - with the wind
  - · against the wind
- 17. What season is it at the North Pole when the North Pole tilts toward the sun? **Summer**
- 18. What season is it at the North Pole when the North Pole tilts away from the sun? **winter**
- 19. In what season are animals most dangerous in Alaska? Spring
- 20. During what season do female animals in Alaska have babies? **Spring**

78 Lesson 15

77

16

Name \_\_\_\_\_

A

- 1. About how long are killer whales? 12 meters
- 2. Compare the size of killer whales with the size of other whales. **Killer** whales ldea: are shorter than other whales
- 3. Are killer whales fish? 10
- 4. Are killer whales warm-blooded or cold-blooded? Warm-blooded
- 5. Name 3 animals that are warm-blooded. Ideas: bears, humans, dogs
- 6. Name 3 animals that are cold-blooded. Ideas: fish, sharks, reptiles

#### Story Items

- 7. How long did Oomoo and Oolak have to stay near the summer house? 2 days
- 8. What kind of house was the summer house? a tent
- 9. What kind of house was the winter house? **a cave**
- 10. Which house was bigger? the summer house
- 11. What was the only problem with the summer house? bugs
- Name 3 kinds of biting insects that Alaska has in the spring.
   mosquitoes, biting flies, no-see-ums
- § 13. Why was Oomoo's summer home in a place where the wind blew hard?

  Idea: When the wind blew, the bugs stayed away.
- 14. What were the male seals on the beach fighting for? the best place on the beach

sson 16

#### **WORKBOOK**

- 15. What were the killer whales waiting for?
  - <u>Idea: the seals to enter the water</u>
- 16. What were Oomoo and her father in when the killer whales came close to them? a kayak
- 17. How many whales were there? 3

#### Skill Items

#### Here are three events that happened in the story:

- a. They were swarming by the thousands on the beach about half a mile from Oomoo's summer home.
- b. Then Oomoo's father ordered Oomoo to stay near their summer house for two full days.
- c. "I never want to be that close to killer whales again," she said to herself.
- 18. Write the letter of the event that happened near the beginning of the story.
- 19. Write the letter of the event that happened near the middle of the story.
- 20. Write the letter of the event that happened near the end of the story.  $\underline{\textbf{\textit{C}}}$

#### **Review Items**

- 21. How many Great Lakes are there? five (5)
- 22. Color the Great Lakes on the map.



23. Fill in the blanks to show the four seasons.

winter, spring summer, fall, winter spring

summer fall

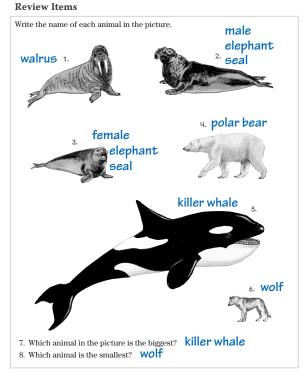
GO TO PART D IN YOUR TEXTBOOK.

.

Lesson 16

## **TEXTBOOK**

Number your paper from 1 through 13.



#### **TEXTBOOK**

- 9. Female animals fight in the spring to protect  $\hfill \blacksquare \blacksquare$  .  $\hfill \hfill \$
- 10. Name 2 kinds of Alaskan animals that are dangerous in the spring. Ideas: polar bears, wolves, walruses
- 11. The map shows a route. What state is at the north end of the route? Alaska
- 12. What country is at the south end of the route? Canada
- 13. About how many miles is the route? 2,500



17

Name \_

A

#### Here are three events that happened in the story:

- a. During the winter, you can walk far out on the frozen ocean.
- But even if the killer whales didn't attack you, you would die within a few minutes after you went into the water.
- c. For a moment, Oomoo was going to say, "That's a pretty long way to drift."
- 1. Write the letter of the event that happened near the beginning of the story.
- 2. Write the letter of the event that happened near the middle of the story.
- 3. Write the letter of the event that happened near the end of the story.  $\mathcal{L}$

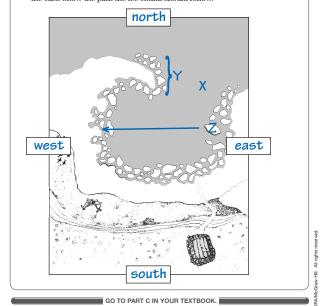
#### Story Items

- 4. During which season do ice floes start? Spring
- 5. During the winter in Alaska, you can walk far out on the ocean. Tell why. ldea: The ocean is frozen.
- 6. Do ice floes make noise in the winter? **Yes**
- 7. Why do ice floes make noise in the spring? Idea: because they are breaking up
- When Oomoo played on the ice floe in the spring, she could never go out to the end of the ice floe. What was at the end of the ice floe? killer whales
- 9. You are out in the ocean on an ice chunk that melts. Name 2 ways you could die. Idea: get attacked by killer whales; the cold water
- 10. Oomoo and Oolak were drifting on something. What was it? an ice chunk

Lesson 17 31

### **WORKBOOK**

- 11. Write north, south, east and west in the boxes
- 12. Make an X where the killer whales stay.
- 13. Make a Y on an ice chunk where Oomoo is not supposed to go.
- 14. Make a Z on the ice chunk Oomoo and Oolak are on.
- 15. Make an arrow from the Z to where they would go if the wind blows from the east. Show the path the ice chunk should follow.



32 Lesson 17

## **TEXTBOOK**

Number your paper from 1 through 17.

#### **Review Items**

- 1. Write the letter of the earth that shows the person in daytime.
- 3. Write the letter that shows the person another 6 hours later.
- 4. Write the letter that shows the person another 6 hours later.  $\,\,$









esson 17

### **TEXTBOOK**

- Which letter on the map shows Alaska? J
- 6. Which letter shows Canada?
- 7. Which letter shows the main part of the United States? R
- 8. Which 2 letters show where Eskimos live? J, F
- 9. How warm is it during winter in Alaska? Idea: very cold



- 10. About how long are killer whales? 12 meters
- 11. Compare the size of killer whales with the size of other whales.
- 12. Are killer whales fish? 10
- 13. Tell if killer whales are  $\mathbf{warm\text{-}blooded}$  or  $\mathbf{cold\text{-}blooded}$ .
- 14. Name 3 animals that are warm-blooded.
- $15. \ \mathrm{Name}\ 3$  animals that are cold-blooded.
- 11. Idea: Killer whales are smaller than other whales.
- 13. warm-blooded
- 14. Ideas: bears, humans, dogs
- 15. Ideas: fish, sharks, reptiles
- 88 Lesson

16. Which globe shows how the earth looks on the first day of winter? Z 17. Which globe shows how the earth looks on the first day of summer?  $\,\,$ 







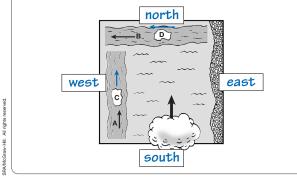
Lesson 17

#### **WORKBOOK**

Name A

wind and

- Name 2 things that can make an ice chunk drift. Currents
- 2. In which direction will you drift when you're in an ocean current? Idea: in the same direction the current moves
- 3. In which direction will you drift when you're in a strong wind? Idea: in the direction of the wind
- 4 Write north, south, east and west in the correct boxes
- 5. In which direction is ocean current A moving? north
- 6. In which direction is ocean current **B** moving? West
- 7. Which direction is the wind coming from? **South**
- 8. Make an arrow above ice chunk C to show the direction the current will move the ice chunk
- 9. Make an arrow above ice chunk D to show the direction the current will move the ice chunk.



Lesson 18

33

## **WORKBOOK**

#### Story Items

- 10. If you're out on the ocean and you spot a green cloud, what should you do? Idea: get to shore immediately
- 11. What 2 things do those clouds bring? strong winds and rain
- 12. Did Oomoo and Oolak follow the rule about watching the sky? 10
- 13. Was the water **smooth** or **rough** where the wind hit the water? **rough**
- 14. How fast was the wind moving? 40 miles per hour
- 15. In which direction was the ice chunk headed? <a href="Ideas: straight north: into the ocean">Ideas: straight north: into the ocean</a>
  16. Name the direction the ice chunk was drifting before the big wind came up.
- 17. Name the direction the ice chunk was drifting after the big wind hit it. north
- 18. Where were the flies and mosquitoes thick?
  - · near the shore · near the tent
- · over the ocean
- 19. Where were the flies and mosquitoes not as thick?
  - · near the shore · near the tent.
- · over the ocean
- 20. What did Oomoo and Oolak do to make the ice chunk rock? <u>Idea: jumped on it</u>
- 21. Name 2 things that tell about the cloud that Oomoo saw. (Any 2:) fat; green; low; storm cloud; it covered the sun

22. The picture shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







GO TO PART D IN YOUR TEXTBOOK.

### **TEXTBOOK**

Number your paper from 1 through 19. Skill Items

She actually repeated that careless mistake.

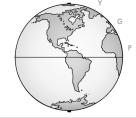
- 1. What word means to do something again? repeated
- 2. What word means the opposite of careful? Careless
- 3. What word means really? actually

Here are three events that happened in the story:

- a. The wind tore across the ocean like a great rake.
- b. And the cloud was not the kind of cloud you see when the
- c. Soon there were very few insects bothering Oomoo and her brother.
- 4. Write the letter of the event that happened near the beginning of the story. C
- 5. Write the letter of the event that happened near the middle of the story.
- 6. Write the letter of the event that happened near the end of the story. a

#### **Review Items**

- 7. Which letter shows the place that has the warmest winters?
- 8. Which letter shows the place that is closest to the equator?  ${\color{red}P}$
- 9. Which letter shows the place that is closest to a pole?
- 10. Is the North Pole or the South Pole closer to that letter? North Pole



- 12. How many days does it take the earth to make one full circle around the sun? 365
- 13. When days get longer, is the North Pole tilting toward the sun or away from the sun? **toward the sun**
- 14. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 15. In April, the sun shines for more than hours each day in Alaska. 12
- 16. During which season do ice floes start? Spring
- 17. During winter in Alaska, you can walk far out on the ocean. Tell why. Idea: because it is frozen
- 18. Do ice floes make noise in the winter? yes
- 19. Why do ice floes make noise in the spring? Idea: because the ice is breaking up

son 18

95

#### **WORKBOOK**

Name \_\_\_\_

Story Items

1. The wind blew Oomoo and Oolak off course. In which direction were they

drifting before the big wind blew?

west

- 2. In which direction did the big wind blow them? north
- 3. When Oomoo heard Oolak's voice, she turned to look at him. Where was Oolak? in the water
- 4. What did Oomoo put in the water to help Oolak? her legs
- 5. Just as Oomoo was sliding off the ice chunk, a huge wave hit it. Where did Oomoo and Oolak end up? **on the middle of the ice chunk**
- When Oolak asked Oomoo, "Are we going to die?" did Oomoo say what she really thought? 110
- 7. When the wind died down, rain and hail began to fall. Which made more noise, the wind or the rain and hail? rain and hail
- 8. Which was colder, the **ocean water** or the **rain**? **Ocean water**
- 9. How long did the rain come down hard?
  - 10 minutes an hour •

• half an hour

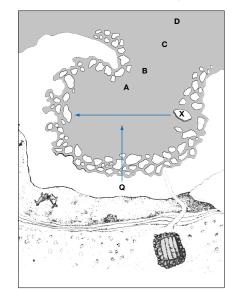
- 10. At the end of the story, what did Oomoo see beyond the ice floe? killer whales
- 11. Did she tell Oolak what she saw? 10
- 12. Tell why. Idea: She didn't want to worry/scare him.
- 13. After the big wind died down, Oomoo and Oolak shouted for help. Why couldn't anyone hear them? Ideas: The heavy rain and hail made too much noise; they were too far from shore.

Lesson 19

35

## **WORKBOOK**

- 14. Make an arrow from the  ${\bf X}$  to the C-shaped ice floe. Show the path the ice chunk was supposed to follow.
- 15. Which letter shows where the ice chunk was at the end of today's story?
- 16. Which letter shows where the killer whales were?
- 17. Make an arrow from the  $\mathbf{Q}$  to show which way the big wind blew.



GO TO PART C IN YOUR TEXTBOOK.

**TEXTBOOK** 

Number your paper from I through 20.

Skill Items 1. Scientists do not ignore ordinary things.

Use the words in the box to write complete sentences.

ordinary repeated enter scientists ignore careless rootless actually hitch

1. do not things.

- 2. She that mistake.
- 2. She actually repeated that careless mistake.

Here are three events that happened in the story:

- a. Oomoo noticed that the ice chunk was very close to the end of the ice floe.
- b. Sometimes they would roll out of the water so that she could see the black-and-white markings around their heads.
- c. Just as Oomoo was sliding off, a huge wave hit the shore side of the ice chunk.
- Write the letter of the event that happened near the beginning of the story.
- 4. Write the letter of the event that happened near the middle of the story.  ${\it C}$
- 5. Write the letter of the event that happened near the end of the story.

#### **Review Items**

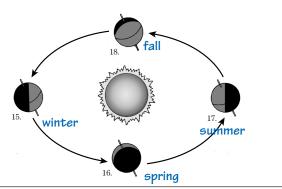
- 6. Name 2 things that can make an ice chunk drift. wind and current
- 7. In which direction will you drift when you're in an ocean current? Idea: in the same direction the current moves
- 8. In which direction will you drift when you're in a strong wind?
- Idea: in the direction of the wind
  9. What kind of boat do Eskimos use in the summer? kayak
- 10. Why don't they use those boats in the winter? Ideas: because the water is frozen; because of the ice floes; because the winds are too strong

  Lesson 19

  99

- 11. Write the number of the earth that has the North Pole tilting away from the sun. 15
- 12. Write the number of the earth that has the North Pole tilting toward the sun. 17
- Write the number of the earth that has darkness all around the North Pole. 15
- 14. Write the number of the earth that has daylight all around the North Pole. 17

Write which season each earth in the picture shows.



- 19. During winter at the North Pole, how much does the sun shine?
- 20. During summer at the North Pole, how much does the sun shine?
  - never all the time

100 Lesson 19

#### **TEXTBOOK**

TEST 2



#### Number your paper from 1 through 29.

- 1. What season is it at the North Pole when the North Pole tilts toward the sun? **Summer**
- What season is it at the North Pole when the North Pole tilts away from the sun? winter
- 3. Which letter on the map shows Alaska?
- 4. Which letter shows Canada? M
- 5. Which letter shows the main part of the United States?
- 6. Which 2 letters show where Eskimos live? P, M
- 7. How warm is it during winter in Alaska? Idea: very cold



- 8. When days get longer, is the North Pole tilting toward the sun or away from the sun? toward the sun
- 9. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 10. In April, the sun shines for more than hours each day in Alaska. 12

son 20

101

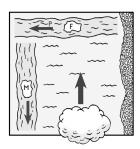
#### **TEXTBOOK**

- 11. Which globe shows how the earth looks on the first day of winter?  $\,$  K 12. Which globe shows how the earth looks on the first day of summer?  $\,$  M





- 13. In what season are animals most dangerous in Alaska? Spring
- 14. During what season do female animals in Alaska have babies? Spring
- 15. In which direction is ocean current P moving? West
- 16. In which direction is ocean current L moving? South
- 17. Which direction is the wind coming from? **South**
- 18. In which direction will ice chunk **F** move? **West**
- 19. In which direction will ice chunk M move? South



12 Lesson 20

## **TEXTBOOK**

- 20. Are killer whales fish? 10
- 21. Tell if killer whales are warm-blooded or cold-blooded. warm-blooded
- 22. Name 3 animals that are warm-blooded.
- 23. Name 3 animals that are cold-blooded. (Any 3:) fish, sharks, reptiles, snakes, etc.

Skill Items

For each item, write the underlined word from the sentences in the box.

<u>Scientists</u> do not <u>ignore ordinary</u> things. She <u>actually repeated</u> that <u>careless</u> mistake.

- 24. What word means really? actually
- 25. What word means that you don't pay attention to something? ignore
- 26. What word means did something again? repeated
- 27. What do we call highly trained people who study different things about the world? **scientists**
- 28. What word means the opposite of careful? careless
- 29. What word tells about things that you see all the time? ordinary

22. (Any 3:) bears, humans, dogs, horses, etc.

END OF TEST 2

Name .

- 1. What are clouds made of? Idea: tiny drops of water
- 2. What kind of cloud does picture A show? storm cloud
- 3. Write the letter of the clouds that may stay in the sky for days at a time.  $\Box$
- Write the letter of the storm clouds. A
- 5. Write the letter of the clouds that have frozen drops of water.
- 6. Write the letter of the clouds that may be five miles high.
- 7. Look at cloud A. At which number does a drop of water start? 1
- 8. What happens to the drop at the number 2? Idea: It freezes.
- 9. Draw 2 arrows on cloud A to show how a hailstone forms and returns to 1.



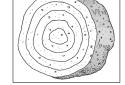




10. If you break a hailstone in half, what will you see inside the hailstone?

rings

11. The picture shows half of a hailstone. How many times did the stone go through a cloud? 5



© SRA/McGraw-Hill. All rights reserved

**WORKBOOK** 

would be rescued

17. Write north, south, east and west in

18. In which direction is ocean current J

19. In which direction is ocean current K

20. Which direction is the wind coming from? **north** 21. Make an arrow above ice chunk  ${\bf L}$  to show the direction the current will

22. Make an arrow above ice chunk  $\mathbf{M}$  to show the direction the current will

12. Oomoo slapped her boot on the ice to make noise. Why did she want the people on shore to hear the noise? Idea: so she and Oolak

13. Why did she want the killer whales to hear the noise? Idea: She

14. Was Oomoo sure that someone would hear her? 100

hoped that the sound would scare them away.

15. About how far was the ice chunk from the tent? more than a mile

16. About how far was the ice chunk from the killer whales? 100 meters

west

GO TO PART D IN YOUR TEXTBOOK.

north

south

east

Story Items

**Review Items** 

the correct boxes

moving? east

moving? north

move the ice chunk

move the ice chunk.

## **TEXTBOOK**

**Review Items** 

## 6. The map shows a route. What state is at the north end of the route? Alaska

7. What country is at the south end of the route? Canada

8. About how many miles is the route? 2500



- 9. Female animals fight in the spring to protect their babies
- 10. Name 2 kinds of Alaskan animals that are dangerous in the spring.
- 12. Flying near the back of a large flock is like riding your bike
  - · with the wind · against the wind

10. Ideas: Polar bears, wolves, walruses

108 Lesson 21

#### TEXTBOOK

their heels into dents in the surface of the ice.

"Play sled," she told Usk. "Play sled. Go home."

At first, Usk just rolled over and almost got the laces tangled in his front paws. "Home," Oomoo repeated. "Play sled and go home."

Usk staved next to the ice chunk, making a playful sound. "Home," Oomoo shouted again.

Then Usk seemed to figure out what he was supposed to do. Perhaps he saw the fins of the killer whales. He got low in the water and started to swim toward shore



Number your paper from 1 through 12.

**Story Items** 

(long, thick) strips

- 1. What were Oomoo's boot laces made of? of animal skin
- 2. What did Oomoo do with the laces after she tied them together?
- 3. What did she want Usk to do? Idea: pull them to safety
- 4. Did Usk immediately understand what he was supposed to do?
- 5. What did Usk start doing at the end of the story? Idea: swimming toward shore
- 2. Idea: Put them around Usk's neck

Name\_

A

Look at the pile in the picture.

- 1. Things closer to the bottom of the pile went into the pile earlier
- 2. Which object went into the pile first? <u>shoe</u>
- 3. Which object went into the pile last? <u>rock</u>
- 4. Which object went into the pile earlier—the knife or the book? **book**
- 5. Which object went into the pile earlier—the pencil or the cup? cup
- 6. Which object went into the pile just after the bone? CUD
- 7. Which object went into the pile just after the pencil? knife



### **WORKBOOK**

#### Story Items

- 8. Oomoo and Oolak dug their heels into dents in the ice so that Usk could not <u>ldea: pull them into the water</u>
- 9. What did Oomoo see that scared her? a killer whale
- 10. Why did Oomoo slap the ice with her hand? Idea: to scare off the killer whale
- 11. While Oomoo and Oolak sat by the tent, they had to study and the ocean the sky
- 12. They had to do that so they would remember to look at the sky
- 13. Did Oomoo find out why the killer whale didn't attack Usk? No
- 14. The people of the village formed a big ring. Who stood in the middle of the ring? Usk
- 15. What did the women give Usk? Idea: a large smoked fish
- 16. What did Oomoo's father paint on each side of Usk? Idea: outline of a killer whale
- 17. Why were Oomoo and Oolak so proud of Usk? Idea: because he saved their lives

#### **Review Items**

18. Fill in the blanks to show the four seasons.

winter, spring \_\_, summer, fall, winter fall spring, <u>summer</u>

GO TO PART D IN YOUR TEXTBOOK.

#### **TEXTBOOK**

The day was peaceful, with the wind blowing gently from the ocean. Oomoo watched the sky and the ocean. From time to time, she looked at the killer whales. She wondered what that whale had thought, and why it hadn't attacked Usk, "You will never understand the whale," an old man of the village had told her.

That afternoon, everyone in the village gathered at Oomoo's tent. The people formed a great ring. They sang. Then Oomoo's father led Usk into the middle of the ring. Women brought him a large smoked fish-his favorite food. He gulped it down and wagged his head from side to side. Then Oomoo's father took

blue paint and painted the outline of a whale on each side of Usk.

"Let this bear live under the sign of the whale," her father said. "Let no hunter shoot this bear or bother this bear. If this bear needs food, feed this bear. We owe much to this bear. Let us thank him."

The people from the village cheered and danced. Oomoo and Oolak danced with the others. They were very, very proud of their bear. They knew that they should not play with him because he was a bear, not a playmate. But they also knew that they owed their lives to that huge, white, playful bear.

Number your paper from 1 through 17.

1. Things closer to the bottom of the pile went into the pile earlier

Look at the pile in the picture.

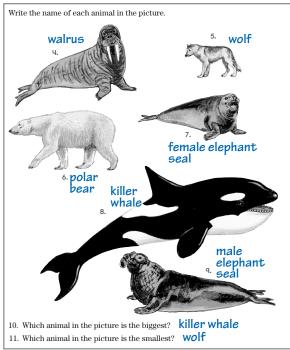
2. Which object went into the pile first? shoe

3. Which object went into the pile last? rock



#### **TEXTBOOK**

#### **Review Items**



- 12. About how long are killer whales? 12 meters
- 13. Compare the size of killer whales with the size of other whales. ldea: Killer whales are smaller than other whales.

#### 14. tiny drops of water

- 14 What are clouds made of?
- 15. What kind of cloud does the picture show? storm cloud
- 16. What happens to a drop of water at B? Idea: It freezes.



17. The picture shows half a hailstone. How many times did the stone go through a cloud? 6



114 Lesson 22

### **WORKBOOK**

Name

Story Items

1. Write the letter of the layer that went into the pile first. A\_\_

- 2. Write the letter of the layer that went into the pile **next**. **B**
- 3. Write the letter of the layer that went into the pile last.
- 4. Which layer went into the pile earlier—B or C? **B**
- 5. Which layer went into the pile earlier—A or C? A
- 6. Write the letter of the layer where we would find the skeletons of humans.
- 7. Write the letter of the layer that has dinosaur skeletons. C
- 8. Write the letter of the layer where we find the skeletons of horses.

9. What's the name of layer C?

- 10. Write the letter of the layer we live in.
- 11. Are there any dinosaur skeletons in layer D?
- 12. Which came earlier on Earth, dinosaurs or horses?

Layer B

Layer A

Lesson 23

<u>dinosaurs</u>

Mesozoic

no

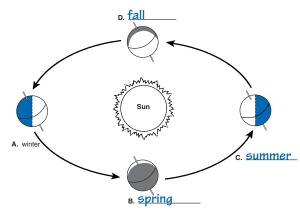
## **WORKBOOK**

13. Which came earlier on Earth, strange sea animals or dinosaurs? 5ea animals

14. What kind of animals lived in the Mesozoic? dinosaurs

#### **Review Items**

- 15. Write the missing seasons on the picture below.
- 16. Shade half of Earth A and half of Earth C.



GO TO PART C IN YOUR TEXTBOOK.

**TEXTBOOK** 

Number your paper from 1 through 20.

Skill Items

- The smell attracted flies immediately.

  1. What word means right now? immediately
- 2. What word means really interested the flies? attracted

#### **Review Items**

- 3. The sun shines
  - some of the time • all of the time
- 4. Can you see the sun all day long and all night long?
- 5. If you can see the sun, is it **daytime** or **nighttime** on your side of the earth? daytime
- 6. What is it on the other side of the earth? nighttime
- 7. The earth turns around one time every hours. 24
- 8. How many heat lines are hitting place X on the map? 4
- 9. Write the letter of the place that's the coldest. X
- 10. Why is place T hotter than place X? Idea: It has more lines of heat.



118

© SRA/McGraw-Hill. All rights reserved

- 11. Which object went into the pile first? Shoe
- 12. Which object went into the pile last? rock
- 13. Which object went into the pile **earlier**, the bone or the book? book
- 14. Which object went into the pile **earlier**, the shoe or the bone? Shoe
- 15. Which object went into the pile **just after** the book? **bone**
- 16. Which object went into the pile **just after** the bone? CUP



17. Things closer to the bottom of the pile went into the pile

earlier

- 18. Write the letter of the storm clouds.
- 19. Write the letter of the clouds that may stay in the sky for days at a time.  $\mbox{\bf A}$
- 20. Write the letter of the clouds that have frozen drops of water.  $\,$







Lesson 23

119

### **WORKBOOK**

A Story Items

Name \_\_\_\_

1. How old was Edna Parker? 13

2. How did Edna usually feel on the ship?

happy

• bored • nervous

3. Why wouldn't Edna be bored on this trip? Idea: Her friend Carla was along.

4. Where was the ship starting from? Florida

5. Where was it going? Andros Island

6. How far was the trip? 120 miles

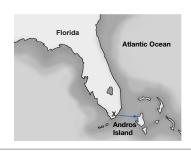
7. How long would it take?

• more than one day

• one day

• less than one day

8. Draw an arrow on the map below to show the trip.



SRA/McGraw-Hill. All rights reserved.

Lesson 24

#### **WORKBOOK**

9. The ship would pass through a place where hundreds of ships have sunk or been lost. Name that place. **Bermuda Triangle** 

 $10.\,$   ${\bf Underline}$  the 3 things you find in the Bermuda Triangle.

- huge waves
- mountains
- streams

- whirlpools
- sudden storms
- icebergs

11. As the girls left the map room, Captain Parker told them to stay away from the sides of the ship and the lifeboats

#### Review Items

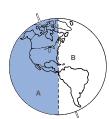
Look at the picture below.

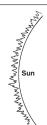
12. Shade the part of the earth where it is nighttime.

13. Which side of the earth is closer to the sun, **A** or **B**?

14. Which side of the earth is in nighttime?

15. Which side of the earth is in daytime? **B** 





GO TO PART D IN YOUR TEXTBOOK.

Lesson 24

© SRA/McGraw-Hill. All rights reserved.

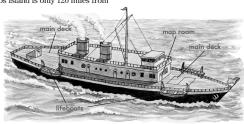
### **TEXTBOOK**

"Yes," Captain Parker said.
"Those are tiny whirlpools. The kind
of whirlpools that you find in the
Bermuda Triangle are just like
those, except they are big enough to
suck a ship down."

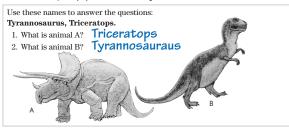
"Wow," Carla said. Edna was trying to imagine a huge whirlpool.

Captain Parker said, "Well, girls, Andros Island is only 120 miles from here, so we should arrive there in less than a day. We should have a smooth trip. The weather looks good. I am going to look over some maps now. You girls may play on deck, but stay away from the sides of the ship. And stay away from the lifeboats."

"All right, Dad," Edna said, and the girls rushed onto the deck.



Number your paper from 1 through 27.



Skill Items 3. She actually repeated that careless mistake.

#### Use the words in the box to write a complete sentence.

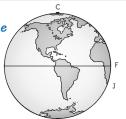


4. The smell attracted flies immediately

#### **Review Items**

Look at the map.

- 5. What's the name of the place shown by the letter C? North Pole
- 6. Which letter shows the coldest place?
- 7. Which letter shows the hottest place?
- 8. Which letter is farthest from the equator?

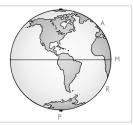


- 9. During which season do ice floes start? Spring
- 10. During winter in Alaska, you can walk far out on the ocean. Tell why. Idea: The ocean is frozen solid.
- 11. What kind of boats do Eskimos use in the summer? kayak
- 12. Why don't they use those boats in the winter? Ideas: because the water is frozen; because of the ice floes; because the winds are too strong

123 Lesson 24

### **TEXTBOOK**

- 13 Which letter shows the part of the earth that receives more heat from the sun than any other part? M
- 14. Which letter shows the part of the earth that receives less heat from the sun than any other part?



- 15. Which came earlier on Earth, dinosaurs or horses? dinosaurs
- 16. Which came earlier on Earth, strange sea animals or dinosaurs?
- 17. Write the letter of the layer that went into the pile first. A
- 18. Write the letter of the layer that went into the pile  $\mathbf{next}$ .
- 19. Write the letter of the layer that went into the pile last.
- 20. Which layer went into the pile **earlier**, B or D?
- 21. Which layer went into the pile **earlier**, A or D?
- 22. Write the letter of the layer where we would find the skeletons of humans.
- 23. Write the letter of the layer that has dinosaur skeletons.
- 24. Write the letter of the layer where we would find the skeletons of horses. D
- 25. Write the letter of the layer we live on.  $\square$
- 26. What's the name of layer C? Mesozoic
- 27. What kind of animals lived in the Mesozoic? dinosaurs
- Lesson 24 16. strange sea animals

## **WORKBOOK**

Name

#### Story Items

- 1. How old was Edna Parker? 13
- 2. How did Edna usually feel on the ship?
  - happy
- bored
- nervous
- 3. As the girls left the map room, Captain Parker told them to stay away from the sides of the ship \_and the lifeboats
- 4. Why didn't the girls stay in the galley?
  - The cook complained about his tooth.
  - It was dirty.
  - It smelled bad.
- 5. The girls didn't stay in the engine room because the engineer told them that they would have to
  - go to the galley
- sing
- 6. The girls decided not to climb the
  - stairs

- 7. Did any of the crew members play with Edna and Carla? 100
- 8. Carla wanted to pretend that they were
  - · on an island
    - · on their own ship • on top of a mountain
- 9. Which girl wanted to play in the lifeboat? Carla
- 10. How many crew members were watching while Edna and Carla talked about playing in the lifeboat?

C SRA/McGraw-Hill. All rights reserved

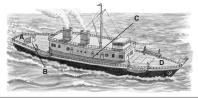
Lesson 25

## **WORKBOOK**

#### Story Items

After Edna and Carla left the map room, they went to different places on the ship.

- 11. Write the letter that shows where they went just after they left the map room. A
- 12. Write the letter that shows where they went next.  $\underline{C}$
- 13. Write the letter that shows where they sat down in the sun.  $\square$



#### Review Items

14. How many Great Lakes are there? five (5) 15. Color the Great Lakes on the map

GO TO PART C IN YOUR TEXTBOOK.

Lesson 25 C SRA/McGraw-Hill. All rights reserved

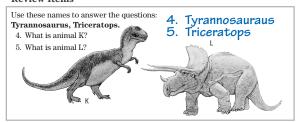
Number your paper from 1 through 26.

Write the word from the box that means the same thing as the underlined part of each sentence.

> they'd spices center leaning we'd discovered throne hav

- 1. They put the table in the middle of the room. center
- The horses came running to get some dried grass. hay
- 3. We would rather play a game. We'd

#### **Review Items**



- 6. Captain Parker's ship passed through a place where hundreds of ships have sunk or been lost. Name that place. Bermuda Triangle
- 7. Write the letters of the 3 things you find in the Bermuda
- Triangle. b, c, d a. streams
  - c. huge waves d. whirlpools
- b. sudden storms
- e, ice floes f. mountains
- 8. When geese learn to fly, do they start in the water or on the land? on land
- 9. They run with their out to the side. Wings
- 128 Lesson 25

## **WORKBOOK**

Name.

- ⚠ Story Items
  - 1. When today's story began, Edna and Carla were pretending they had their own ship. Who was the captain? Carla
- 2.  $Underline\ 3$  things the first mate did to look more like a sailor.
  - took off her shoes
- · wore short pants
- · wore a sailor suit.
- · rolled up her pants
- · wrapped a handkerchief around her head
- 3. What happened to the lifeboat when the girls were in it?
  - It dropped into the water. It turned over. It rang a bell.

С

- 4. What part of the lifeboat hit the water first, the bow or the stern? bow
- 5. What happened to Edna when the boat hit the water?
  - She fell out of the boat.
- She bumped into Carla.
- She hit her head
- 6. What 2 things did the girls do to make the people on the large ship notice them? Ideas: waved (their arms) and yelled
- 7. Did anyone notice them? 10
- 8. When Edna and Carla turned around, they saw one of these clouds. Write the letter of that cloud.

### **TEXTBOOK**

- 10. What's the name of the line that goes around the fattest part of the earth? equator
- 11. What's the name of the spot that's at the top of the earth? North Pole
- 12. What's the name of the spot that's at the bottom of the earth?

South Pole

Choose from these words to answer each item:

- moon Florida • sun • equator
- geese poles • Canada • migration 13. The heat that the earth receives comes from the Sun
- 14. The part of the earth that receives more heat than any other part is the equator
- 15. The parts of the earth that receive less heat than any other part are called the \_\_\_\_\_\_ poles
- 16. Write the letters of the 2 kinds of places that are safe for geese. C, d
  - a. places with a few geese
- c. places with many geese
- b. places with a few ducks
- d. places with no geese or ducks

Write the name of each numbered object in the picture. Choose from these names: • Eskimo kayak spear



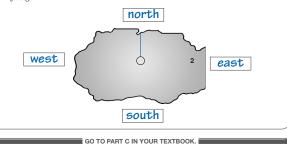
- 23. Do ice floes make noise in the winter? Ves
- 24. Why do ice floes make noise in the spring?
- 25. In which direction will you drift when you're in an ocean current?
- 26. In which direction will you drift when you're in a strong wind? Idea: with
- 24. Idea: because the ice is breaking up, the wind 25. Idea: in the same direction as the current

### **WORKBOOK**

- 9. When the girls started bailing, there was about 5water in the boat
- 10. What made the girls stop bailing?
  - a whirlpool
- an airplane
- 11. At the end of the story, how high were the waves? **20 feet high**
- 12. How fast were the winds moving? 40 miles per hour

#### Review Items

- 13. In which direction do geese migrate in the fall? **South**
- 14. In which direction do geese migrate in the spring? <u>north</u>
- 15. Write the directions north, south, east and west in the boxes.
- 16. Make a line that starts at the circle on the map and goes north.
- 17. If you start at the circle and move to the number 2, in which direction do you go? east



waved their arms. They continued to wave as the large ship became smaller, smaller, smaller, Then the girls stopped waving and continued to watch the large ship. Now it was only a dot on the glassy water.

Suddenly, as the girls watched the dot, a very cool breeze hit them from behind. The air suddenly had a different smell. The wind roughed up the surface of the water.

Edna turned around and looked up. Behind the lifeboat was a great storm cloud. It rose up and up. "Oh no," Edna said. Then her mind started to work fast. "Let's start bailing water out of this boat. We're in for a storm."

When the girls started bailing, there was about 5 inches of water in the bottom of the boat. The girls

hailed and hailed. The waves got bigger and bigger. Now there was only about 3 inches of water in the boat, but the waves hitting the boat were very big and they were starting to splash over the side. The girls bailed and bailed and the waves splashed and splashed. Now there was about 4 inches of water in the boat.

The girls had to stop bailing when a terrible wind hit the boat. The waves were so large that Edna had to hang on to the side of the boat. She just kept hanging on and hoping that the storm would stop. But the waves were now over 20 feet high and the winds were moving forty miles per hour. The boat was going up and down the waves.

## Number your paper from 1 through 19.

Here are three events that happened in the story. Write beginning, middle or end for each event.

- 1. The girls had to stop bailing when a terrible wind hit the boat.
- 2. The ropes were making a howling sound as they ran through the wheels that had been holding the lifeboat. middle
- 3. Carla pretended to take out her spyglass and look around. beginning

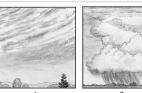
#### **Review Items**

- 4. In which direction do geese fly in the fall?  $\,$  South
- 5. What is this trip called? **migration**
- 6. Geese live in large groups called flocks

Lesson 26

### TEXTBOOK

7. Where are most wild geese born? Canada







- 8. Write the letter of the clouds that may stay in the sky for days at a time.
- 9. Write the letter of the storm clouds.
- 10. Write the letter of the clouds that have frozen drops of water.  $\begin{tabular}{c} \begin{tabular}{c} \begin{tabular}{c}$
- 11. Which letter shows the place

that has the warmest winters?

- 12. Which letter shows the place that is closest to the equator?
- 13. Which letter shows the place that is closest to a pole? K
- 14. Is the North Pole or the South Pole closer to that letter? **South Pole**



- 15. The earth makes a circle around the sun one time every
- 16. How many days does it take the earth to make one full circle around the sun? 365
- 17. During winter at the North Pole, how much does the sun shine?
  - never · all the time
- 18. During summer at the North Pole, how much does the sun shine?
  - never • all the time
- 19. Name 2 things that can make an ice chunk drift

wind and (ocean) currents 133

## **WORKBOOK**

Name\_

A

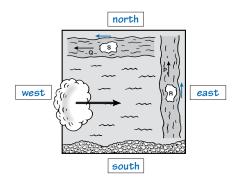
- 1. Whirlpools are made up of moving **Water**
- 2. A whirlpool is shaped like a **funnel**
- 3. What happens to something that gets caught in a whirlpool? Idea: It goes around and around as it moves down.
- 4. What happened to the lifeboat when the girls got in it? \_ Idea: It dropped into the water.
- 5. When today's story began, Carla shouted that she saw land. What did she really see? a (huge) wave
- 6. When could Edna see in the distance?
  - $\bullet\,$  at the top of a wave
- · at the bottom of a wave
- 7. After the giant wave hit, the boat was being sucked into a (giant) whirlpool
- 8. Some things happened so fast that Carla and Edna had to try to figure out what they were. What two things did Edna remember? the flash and the splash
- 9. What made the blinding flash? lightning
- 10. What fell from the sky? hailstones; hail
- 11. Did the boat land near the whirlpool? 10
- 12. How did Edna feel when the sea was calm again? Ideas: sick; dizzy
- 13. About how deep was the water when Edna stepped out of the lifeboat? 1 meter
- 14. About how far was it from the lifeboat to the beach? half a mile

SRA/McGraw-Hill. All rights reserved

## **WORKBOOK**

#### **Review Items**

- 15. Write north, south, east and west in the correct boxes
- 16. In which direction is ocean current P moving? north
- 17. In which direction is ocean current  ${\bf Q}$  moving? West
- 18. Which direction is the wind coming from? West
- 19. Make an arrow next to ice chunk  ${\bf R}$  to show the direction the current will move the ice chunk.
- 20. Make an arrow above ice chunk  ${\bf S}$  to show the direction the current will move the ice chunk.



GO TO PART D IN YOUR TEXTBOOK.

Lesson 27 © SRA/McGraw-Hill. All rights reserved

Number your paper from 1 through 18.

Skill Items

Write the word from the box that means the same thing as the underlined part of each sentence.

hooves tame modern tusks charging English ancient

- 1. We visited the very, very old city. ancient
- 2. My pet goat is not wild. tame
- 3. The hunters wanted the elephant's large, curved teeth. tusks
- 4. We visited a very <u>new</u> city. **modern**

#### **Review Items**

The rim of the volcano exploded.

- 5. What word means made a bang and flew apart? exploded
- 6. What word means a mountain formed from hot flowing rock?VO Cano
- 7. What word means the top edge of the volcano? rim
- 8. The earth is shaped like a ball
- 9. The sare the coldest places on the earth and the the hottest place on the earth.
- 10. At which letter would the winters be very, very cold?11. At which letter would the

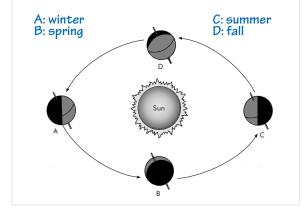
winters be very, very hot?

F

Lesson 27 137

## TEXTBOOK

- 12. Write the letter of the earth that has the North Pole tilting away from the sun.
- 13. Write the letter of the earth that has the North Pole tilting toward the sun.  ${\color{blue}C}$
- 14. Write the letter of the earth that has darkness all around the North Pole. A
- 15. Write the letter of the earth that has daylight all around the North Pole.  ${\color{blue}C}$
- 16. Write  ${\bf A}, {\bf B}, {\bf C}$  and  ${\bf D}.$  Then write the season each earth in the picture shows.



- 17. Are killer whales fish? No
- 18. Tell if killer whales are warm-blooded or cold-blooded. Warm-blooded

138 / Jaccon 1

## **WORKBOOK**

Name

A

### Story Items

- After the giant wave hit the boat in the last story, what was the boat being sucked into? a whirlpool
- 2. Some things happened so fast that Carla and Edna had to try to figure out what they were. What made the blinding flash? lightning
- 3. What fell from the sky? hailstones; hail
- 4. About how far was it from the lifeboat to the beach? half a mile
- 5. What was right behind the beach? jungle
- 6. What was strange about the sand on the beach? Idea: It was red.
- 7. Edna and Carla woke up when it was dark. What woke them up?
- 8. The animal Edna saw was as big as some of the trees
- 9. Did the animal walk on 4 legs or 2 legs? 2 legs
- 10. Where did the girls go to spend the last part of the night?

  Idea: under the lifeboat
- 11. Did the girls get much sleep?
- 12. What was the first thing the girls discovered in the red sand? **footprints**
- 13. The footprints were long.
  - a foot
- a yard
- $\bullet \ \ half \ a \ meter$

© SRA/McGraw-Hill. All rights reserved.

Lesson 28

5

### **WORKBOOK**

#### **Review Items**

14. Write the letter of the earth that shows the person in daytime.

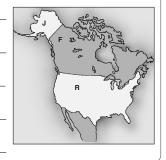
Α\_\_\_\_\_

15. Write the letter of the earth that shows the person 6 hours later.

16. Write the letter that shows the person another 6 hours later.  $\ensuremath{\emph{C}}$ 

17. Write the letter that shows the person another 6 hours later.

- e \_\_\_\_\_
- ه کا
- 18. Which letter on the map shows Alaska?
- 19. Which letter shows Canada?
- 20. Which letter shows the main part of the United States?
- 21. Which 2 letters show where Eskimos live? **Jand F**
- 22. How warm is it during winter in Alaska? **Very cold**



GO TO PART C IN YOUR TEXTBOOK.

52 Lesson

© SRA/McGraw-Hill. All rights reserved.

her foot and made a noise. Edna sat up so suddenly that she hit her head on the inside of the lifeboat.

That was the longest night that Edna remembered. She kept waiting for the sky to become light. She wasn't sure which part would become light first, because she didn't know where east was. The first part to get light was over the jungle. Then it seemed that a year passed before it was light enough to see the ocean clearly. The sun was not up yet, but the birds were squawking and screaming in the jungle.

At last, Edna and Carla crawled out from under the lifeboat. The first thing they did was walk to where they had seen the outline of the huge animal. As soon as they got close to the spot, they saw the animal's huge footprints in the red sand.

When Edna looked at the footprints, she knew that there was an animal on this island that looked like no other living animal anyone had ever seen. It left footprints that were a yard long!

Number your paper from 1 through 22.

Skill Items

Write the word from the box that means the same thing as the underlined part of each sentence.

speech	excited	screech	box	
certain	armor	pouch	surface	

- She put her keys in the small bag. pouch
- 2. The sharp sound of the peacock startled me. Screech
- 3. I am sure about the answer to the question. certain

Use the words in the box to write complete sentences.

volcano	practiced	attra	cted	exploded
sense	immed	iately	straı	ngely

- 4. The smell flies attracted, immediately
- 5. The rim of the volcano, exploded

esson 28

#### **TEXTBOOK**

11. (Any 3): fish, sharks, reptiles, snakes, etc.

#### **Review Items**

- 6. What season is it at the North Pole when the North Pole tilts toward the sun? **Summer**
- 7. What season is it at the North Pole when the North Pole tilts away from the sun? **winter**
- 8. Female animals fight in the spring to protect ............ their babies
- 9. Name 2 kinds of Alaskan animals that are dangerous in the spring. Ideas: polar bears, wolves, walruses
- 10. Name 3 animals that are warm-blooded. (Any 3): bears, humans,
- 11. Name 3 animals that are cold-blooded. dogs, cats, etc.
- 12. What are clouds made of?
- 13. What kind of cloud does the picture show? **storm cloud**
- 14. What happens to a drop of water at **B**? **Idea: It freezes.**



- 15. Which object went into the pile first? shoe
- 16. Which object went into the pile last? rock
- 17. Which object went into the pile **earlier**, the cup or the book?
- 18. Which object went into the pile **earlier**, the bone or the book?
- 19. Which object went into the pile **just** after the pencil? **knife**
- 20. Which object went into the pile **just after** the bone? CUP
- 21. Whirlpools are made up of moving \_\_\_\_\_. water 22. A whirlpool is shaped like a \_\_\_\_\_. funnel
- 12. tiny drops of water
- 142 Lesson 28

## **WORKBOOK**

Name \_\_\_\_\_

A Story Items

- What was strange about the sand on the beach where Edna and Carla landed? Ideas: It was red; it had big footprints.
- 2. The footprints of the animal were a yard
- 3. How many toes did each footprint have? 3
- 4. What did the size of the footprints tell about the size of the animal?
  - It was bigger than a bear.
  - It was a bear.
  - It was a bear.

     It was smaller than a bear.
- 5. How did Edna know that the animal was very heavy?
  - The footprints were long.
  - The footprints were long.
     The footprints made deep dents.
  - The footprints had 3 toes.
- 6. What part of the animal made the deep groove between the footprints?

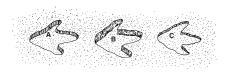
tai

- 7. Edna wasn't sure if she wanted to follow the animal. **Underline** 2 things that tell what the parts of her mind wanted to do.
  - · read about dinosaurs
- learn more about the animal
- run • think
- find something to eat
- 8. Edna saw something next to the path that she recognized from a picture in a book. What did she see?
  - a stream
- a tree a bug
- 9. What else was in that picture?
  - dinosaurs ships rocks
- 10. How did that make her feel? Idea: afraid

**WORKBOOK** 

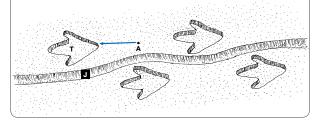
11. Write the letter of the footprint made by the heaviest animal.

12. Write the letter of the footprint made by the lightest animal.  $\underline{\mathcal{C}}$ 



The picture shows marks left by an animal.

- 13. Make an arrow from dot  ${\bf A}$  to show the direction the animal is moving.
- 14. Write the letter of the part that shows a footprint.  $\perp$
- 15. Write the letter of the part that shows the mark left by the animal's tail.



GO TO PART C IN YOUR TEXTBOOK.

54 Lesson 29

© SRA/McGraw-Hill. All rights reserve

Number your paper from 1 through 23.

#### Review Items

- 1. When days get longer, is the North Pole tilting toward the sun or away from the sun? **toward the sun**
- When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 3. In April, the sun shines for more than hours each day in Alaska. 12
- Which globe shows how the earth looks on the first day of winter?
   Which globe shows how the earth looks on the first day of





Use these names to answer the questions:
Tyrannosaurus, Triceratops.
6. What is animal X?
Triceratops
Tyrannosaurus

X

### **TEXTBOOK**

- 8. Which came earlier on Earth, dinosaurs or horses? dinosaurs
- Which came earlier on Earth, strange sea animals or dinosaurs? strange sea animals
- 10. Write the letter of the layer that went into the pile **first**. A
- 11. Write the letter of the layer that went into the pile  $\mathbf{next}$ .
- 12. Write the letter of the layer that went into the pile last.  $\begin{tabular}{c} \begin{tabular}{c} \beg$
- 14. Which layer went into the pile **earlier**, A or C?
- Write the letter of the layer where we would find the skeletons of humans.
- 16. Write the letter of the layer that has dinosaur skeletons.
- 17. Write the letter of the layer where we would find the skeletons of horses.  $\cD$
- 18. Write the letter of the layer we live on.
- 19. What's the name of layer C? Mesozoic
- 20. What kind of animals lived in the Mesozoic? dinosaurs
- Captain Parker's ship passed through a place where hundreds of ships have sunk or been lost. Name that place.
- 22. Write the letters of the 3 things you find in the Bermuda Triangle.  ${\it c,d,f}$ 
  - a. streamsb. ice floesc. huge wavesd. sudden stormse. mountainsf. whirlpools
- 23. What happens to something that gets caught in a whirlpool? Idea: It goes around and around as it moves down.
- 21. Bermuda Triangle

esson 29 147

### **TEXTBOOK**

30

 tiny drops of water



Number your paper from I through 36.

- 1. What are clouds made of?
- 2. What kind of cloud does the picture show? **storm** cloud
- 3. What happens to a drop of water at **B**? **Idea: It freezes.**



The picture shows half a hailstone.
 How many times did the stone go through a cloud?



- 5. Which object went into the pile first? Shoe
- 6. Which object went into the pile last? rock
- 7. Which object went into the pile **earlier**, the rock or the pencil? **pencil**
- 8. Which object went into the pile earlier, the pencil or the knife? pencil
- 9. Which object went into the pile just after the knife? rock
- 10. Which object went into the pile **just after** the rock? **nothing**

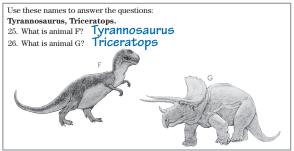


- 11. Things closer to the bottom of the pile went into the pile earlier
- 12. Which came earlier on Earth, dinosaurs or horses? dinosaurs

#### 148 Lesson 30

## **TEXTBOOK**

- 13. Which came **earlier** on Earth, strange sea animals or dinosaurs? **strange sea animals**
- 14. Write the letter of the layer that went into the pile  ${f first.}$
- 15. Write the letter of the layer that went into the pile  $\mathbf{next}$ .
- 16. Write the letter of the layer that went into the pile last. D
- 17. Which layer went into the pile **earlier**, B or A?  $\overset{\bigstar}{\mbox{\sf A}}$
- 18. Which layer went into the pile **earlier**, A or C?
- 19. Write the letter of the layer where we would find the skeletons of humans.
- 20. Write the letter of the layer that has dinosaur skeletons.  $\ref{c}$
- 21. Write the letter of the layer where we would find the skeletons of horses.
- 22. Write the letter of the layer we live on.
- 23. What's the name of layer C? Mesozoic
- 24. What kind of animals lived in the Mesozoic? dinosaurs



- 27. Write the letters of the things you find in the Bermuda Triangle. C, e, f
  - a. ice floes
- d. streams
- b. mountains
- e. huge waves
- c. whirlpools
- f. sudden storms

- 29. A whirlpool is shaped like a **funnel** 30. What happens to something that gets caught in a whirlpool?
- 31. Write the letter of the footprint made by the heaviest animal.
- 32. Write the letter of the footprint made by the lightest animal.



**Skill Items** 

For each item, write the underlined word or words from the sentences in the box.

> The smell attracted flies immediately. The rim of the volcano exploded.

- 33. Which underlined word refers to a mountain formed from hot flowing rock? volcano
- 34. Which underlined word means right now? immediately
- 35. Which underlined word means the top edge? rim
- 36. Which underlined word means made a bang and flew apart? exploded

END OF TEST 3

30. Idea: It goes around and around as it moves down.

Lesson 30

### **WORKBOOK**

#### 9. Ideas: the bird-like animal; the flying dinosaur

Name

#### Story Items

- 1. Edna and Carla saw a winged animal. Was that animal a bird? NO
- 2. How do you know?
  - It had teeth.
- · It didn't have a beak.
- · It didn't have feathers.
- 3. Its wings were covered with something that looked like
  - feathers
- leather
- 4. How long ago did those winged animals live on Earth?
  - · a thousand years ago
  - · a million years ago
  - a hundred million years ago
- 5. Underline the name of the dinosaur the girls saw
  - Triceratops
    - · Mammoth
- Tvrannosaurus
- 6. What cracked the tree that Edna was hiding behind?
  - Tyrannosaurus's head Tyrannosaurus's foot Tyrannosaurus's tail
- 7. What happened to Edna when the tree cracked? Idea: She went flying.
- 8. Before Edna started to run, she heard noises from the clearing. What made the leathery flapping sound?
  - Tyrannosaurus
- · the flying dinosaur
- 9. Whose bones were making the crunching sound?
- 10. Tyrannosaurus didn't hear Edna running because it was
  - sleeping
- eating
- scratching
- 11. As Edna ran through the jungle toward the beach, what did she see on the path? a snake
- 12. Did Edna slow down when she saw it? 10
- 13. When Edna got to the beach, she realized that something was wrong. What was wrong? Ideas: Carla was not with her:

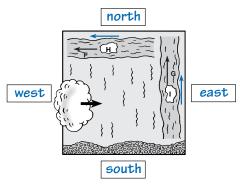
she forgot (about) Carla.

#### **WORKBOOK**

Lesson 31

#### Review Items

- 14. Write north, south, east and west in the correct boxes
- 15. In which direction is ocean current F moving? West
- 16. In which direction is ocean current G moving? north
- 17. Which direction is the wind coming from? West
- 18. Make an arrow above ice chunk **H** to show the direction the current will move the ice chunk.
- 19. Make an arrow above ice chunk I to show the direction the current will move the ice chunk.



GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

#### TEXTBOOK

great leap she jumped over the snake and kept on running. When the girls had gone into the jungle, the path had seemed long. Now it seemed longer. It seemed as if it would never end. "Run," she said out loud between her breaths, "Run, Run,"

Edna ran until she could see the beach ahead of her. Then her mind slowly began to work again. She stopped and turned around. There was nothing on the path behind her. Good, Good, Tyrannosaurus was making so much noise eating that flying animal that it couldn't hear Edna. Besides, Tyrannosaurus

already had a meal. What would it want with a tiny animal like Edna? Edna wouldn't be much more than a mouthful for the monster. Edna was thinking now. She walked out onto the red sand of the beach.

She was out of breath. Now she began to realize how frightened she had been. She had been so frightened that she forgot about everything. She forgot about being careful. Suddenly. Edna turned all the way around. She had forgotten about Carla. Where was Carla?

Edna looked in all directions, but she couldn't see Carla.

Number your paper from 1 through 20.

Skill Items

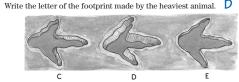
Here are three events that happened in the story.

Write beginning, middle or end for each event.

- 1. Edna went flying into the soft plants that covered the floor of the jungle. middle
- 2. A huge bird-like animal sailed down from above the jungle. beginning

She had been so frightened that she forgot about everything. end

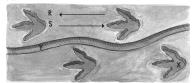
4. Write the letter of the footprint made by the lightest animal.



Lesson 31

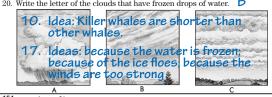
The picture shows marks left by an animal.

- 6. Which arrow shows the direction the animal is moving?  $\,$
- 7. Write the letter of the part that shows a footprint. X
- 8. Write the letter of the part that shows the mark left by the animal's tail.



Review Items 15. Idea: in the direction the wind blows 9. About how long are killer whales? about 12 meters

- 10. Compare the size of killer whales with the size of other whales.
- 11 Are killer whales fish? 10
- 12. Tell if killer whales are warm-blooded or cold-blooded.Warm blooded
- 14. Name: 2 things that can make an ice glunk drift. wind and (ocean) 14. Idea: in the direction of the current 14. In which direction will you drift when you're in an ocean current? current
  - 15. In which direction will you drift when you're in a strong wind?
  - 16. What kind of boat do Eskimos use in the summer? kayak
  - 17. Why don't they use those boats in the winter?
  - 18. Write the letter of the storm clouds. A
  - 19. Write the letter of the clouds that may stay in the sky for days at a time. C
  - 20. Write the letter of the clouds that have frozen drops of water.



#### **WORKBOOK**

A Story Items

Name

1. At the beginning of the story, Edna was trying to decide something. Underline what she was trying to decide.

- whether she should go back into the jungle
- · whether she should hide under the boat
- · whether she should call for help
- 2. Edna didn't call to Carla because the sound would
  - · make the birds fly
  - not be loud enough
  - · catch the dinosaur's attention

3. When Edna was near the clearing, she couldn't see Tyrannosaurus. Underline 2 ways she knew that Tyrannosaurus was nearby.

- · She could feel its skin.
- She could hear it.
- She could smell it.
- She could taste it.
- 4. Carla was lying very still because
  - Tyrannosaurus was near
  - · the leaves were wet
  - · Edna was watching
- 5. Carla didn't get up because her leg was <u>Idea: tangled in vines</u>
- 6. Edna made up a plan to save Carla. How was Edna going to catch Tyrannosaurus's attention? Idea: make noise (in the jungle)
- 7. In Edna's plan, what would Tyrannosaurus do? Ideas: come after noise; chase Edna

© SRA/McGraw-Hill. All rights reserved

### **WORKBOOK**

- 8. What would Carla do? Ideas: free her leg; run to safety
- 9. Did Edna get to try her plan? 10
- 10. What came into the clearing when Tyrannosaurus was moving back and forth? (3) Triceratops
- 11. What were Edna and Carla trying to do at the end of the story? Idea: get Carla's leg free

#### Review Items

- 12. What kind of boat do Eskimos use in the summer? kayak
- 13. Why don't they use those boats in the winter? Ideas: because the water is frozen; because of the ice floes; because the winds are too strong
- 14. During which season do ice floes start? Spring.
- 15. During winter in Alaska, you can walk far out on the ocean. Tell why. <u>Idea: because the ocean is frozen solid</u>
- 16. Do ice floes make noise in the winter? Yes
- 17. Why do ice floes make noise in the spring? Idea: because the ice floes are breaking apart

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

Number your paper from 1 through 22.

Skill Items

Write the word from the box that means the same thing as the underlined part of each sentence.



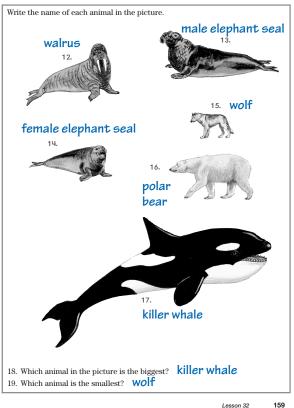
- 1. He quickly swallowed the milk. gulped
- 2. She got some new mukluks. boots
- 3. The animal's hard covering protects it from enemies. armor

#### The new exhibit displayed mysterious fish.

- 4. What word describes things we don't understand? mysterious
- 5. What word means an arrangement of things for people to look at? exhibit
- 6. What word means showed? displayed

#### **Review Items**

- 7. How long ago did dinosaurs live on Earth?
  - · 30 thousand years ago
  - · 1 million years ago
  - · 100 million years ago
- 8. In what season are animals most dangerous in Alaska? Spring
- 9. During what season do female animals in Alaska have babies? Spring
- 10. About how long are killer whales? 12 meters
- 11. Compare the size of killer whales with the size of other whales. Idea: Killer whales are shorter than other whales.



Lesson 32

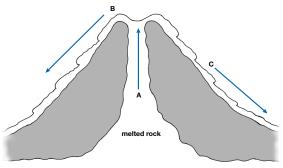
### TEXTBOOK

20. The map shows a route. What state is at the north end of the route? Alaska 21. What country is at the south end of the route? Canada 22. About how many miles is the route? 2500 (miles) Kotzebue 500 miles

## **WORKBOOK**

Name

- 1. What comes out of a volcano? hot melted rock
- 2. Draw arrows at A, at B and at C to show the way the melted rock moves.



- 3. Two things happen to melted rock when it moves down the sides of a volcano. Underline those 2 things.
  - It gets hotter.
  - It gets cooler.
  - It hardens.
  - It runs faster.
  - It gets softer.
- 4. What is it called when the earth shakes and cracks? earthquake; quake

© SRA/McGraw-Hill. All rights reserved

## **WORKBOOK**

#### Story Items

- 5. When Edna was near the clearing in the last story, she couldn't see Tyrannosaurus. Underline 2 ways she knew that Tyrannosaurus was nearby.
  - She could taste it.
  - She could hear it.
  - She could feel its skin.
  - · She could smell it.
- 6. What came into the clearing when Tyrannosaurus was moving back and forth? (3) Triceratops
- 7. At the beginning of today's story, Tyrannosaurus was fighting
  - Triceratops
- a mammoth
- · a flying dinosaur
- 8. Who won the fight? (the 3) Triceratops
- 9. What kept making the earth rock from side to side?
  - earthquakes
- the volcano
- the storm
- 10. What made the boiling cloud of smoke? **volcano**
- 11. Why did Edna fall down on the beach? Idea: because the earth kept moving
- 12. When the girls were in shallow water, what formed underwater? a crack
- 13. Who fell into the crack? Edna
- 14. What did the volcano do just after Edna got into the boat? It exploded.
- 15. Did the girls know where they were going to go at the end of the story?

GO TO PART D IN YOUR TEXTBOOK. Lesson 33 C SRA/McGraw-Hill. All rights reserved

Edna rubbed her eves with one hand and looked in the direction of the voice. Carla was sitting in the boat. She helped Edna get into the boat. The sky was so dark now that it was almost like night.

Suddenly, there was a terrible explosion. The explosion had so much force that it seemed to press the air against Edna's face. This pressing feeling came before the sound of the explosion. The sound was like nothing that Edna had ever heard. It was so loud that her ears rang for hours. That explosion had so much force that it knocked down all the trees on the island.

The girls began to row away from the island. "Where are we going to go?" Carla asked.

"I don't know," Edna replied. "I don't know." She did know one thing, however. She knew that she didn't want to be near that island.

# Number your paper from 1 through 25. Skill Items 1. The rim of the volcano exploded.

Use the words in the box to write complete sentences.

displayed	adventure	exploded	reason	
rim	glanced	mysterious	directed	

- 1. The of the volcano 2. The new exhibit fish.
- 2. The new exhibit displayed mysterious fish.

#### **Review Items**

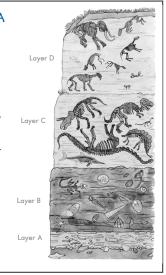
- 3. What season is it at the North Pole when the North Pole tilts toward the sun? Summer
- 4. What season is it at the North Pole when the North Pole tilts away from the sun? winter
- In what season are animals most dangerous in Alaska? Spring
- 6. During what season do female animals in Alaska have babies? Spring
- 7. Things closer to the bottom of the pile went into the pile

earlier

164

### TEXTBOOK

- 8. Write the letter of the layer that went into the pile first. A
- 9. Write the letter of the layer that we live on. D
- 10. Which layer went into the pile later, A or B?
- 11. Write the letter of the layer where we would find the skeletons of humans.
- 12. Write the letter of the layer where we find the skeletons of dinosaurs. C
- 13. Write the letter of the layer where we find the skeletons of horses.
- 14. What's the name of layer C? Mesozoic



165

#### **TEXTBOOK**

# Use these names to answer the questions: Tyrannosaurus, Triceratops. 15. What is animal R? Triceratops 16. What is animal S? Tyrannosaurus

- 17. What are clouds made of?
- 18. What kind of cloud does the picture show? storm cloud
- 19. What happens to a drop of water at B? Idea: It freezes.



20. The picture shows half a hailstone. How many times did the stone go through a cloud? 6



#### 17. tiny drops of water

## **TEXTBOOK**

- 21. Which letter on the map shows Alaska?
- 22. Which letter shows Canada?
- 23. Which letter shows the main part of the United States?  $\mathsf{T}$
- 24. Which 2 letters show where Eskimos live? E, N
- 25. How warm is it during winter in Alaska? Idea: very cold



Name\_

#### Story Items

- 1. What color was the water where it was shallow? **Qreen**
- 2. What color was the water where it was deepest? dark (or deep) blue
- 3. Edna had blisters on her hands from rowing; the oars
- 4. As the girls sat in the lifeboat, they could see a billowing cloud in the distance. What was making that cloud? **volcano**
- 5. Name 2 kinds of supplies you'd need to stay on the ocean for a long time. Ideas (any 2): fresh water; food; sun protection
- 6. In which direction were the girls drifting?  $\underline{\text{West}}$
- 7. Edna was thirsty. Why didn't she drink some ocean water?
  - It was warm.
- It was salty
- · It was dirty.
- 8. What made the boat move faster and faster? Whirlpool; currents
- 9. While the lifeboat was in the whirlpool, why did the clouds seem to be spinning?
  - · because of the wind
- · because the boat was spinning because she was sick
- 10. Did the girls know how they got out of the whirlpool?  ${\color{orange} 10}$
- 11. The water in the bottom of the boat was very warm, so that water had been in the boat for
  - a few seconds
- a few minutes
- a long time
- 12. After Edna woke up, she saw fish. What color was the water? dark blue
- 13. Why was Edna thinking about chewing on raw fish?
  - because she needed toothpaste
  - because she needed food
  - because she needed water

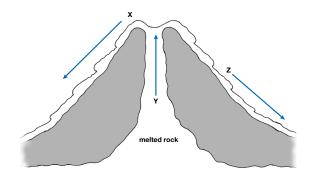
© SRA/McGraw-Hill. All rights reserved

61

#### **WORKBOOK**

#### Review Items

14. Draw arrows at  $\mathbf{X}$ , at  $\mathbf{Y}$  and at  $\mathbf{Z}$  to show the way the melted rock moves.



GO TO PART D IN YOUR TEXTBOOK.

## **TEXTBOOK**

Number your paper from 1 through 23.

Write the word or words from the box that mean the same thing as the underlined part of each sentence.

shriek skeletons

breath an instant

a sense

armor tangle

- 1. The animal bones were near the big old tree. skeletons
- 2. He was afraid for a moment. an instant
- 3. The runner was very fast. Swift

#### **Review Items**

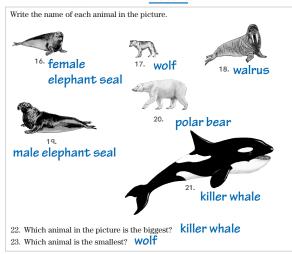
- 4. Write the letters of the 3 things you find in the Bermuda Triangle. a, b, f
  - a. sudden storms
- d. mountains
- b. whirlpools
- e. streams
- c. ice floes
- f. huge waves
- 5. Write the letter of the footprint made by the heaviest animal. 6. Write the letter of the footprint made by the lightest animal.



- 7. How long ago did dinosaurs live on Earth?
  - · 10 million years ago
  - 100 million years ago
  - · 100 thousand years ago
- 8. Two things happen to melted rock when it moves down the sides of a volcano. Name those 2 things. Idea: cools and hardens
- 9. What is it called when the earth shakes and cracks? earthquake

## **TEXTBOOK**

- 10. The earth makes a circle around the sun one time every \_\_\_\_\_. year
- 11. How many days does it take the earth to make one full circle around the sun? 365
- 12. Is it easier to fly alone or with a large flock? with a large flock
- 13. Flying near the back of a large flock is like riding your bike
  - with the wind
- · against the wind
- 14. During winter at the North Pole, how much does the sun shine?
  - never
- · all the time
- 15. During summer at the North Pole, how much does the sun shine?
  - never
- all the time



Name \_

### Story Items

- 1. What did Edna see that told her a ship was in the distance? (slim line of)
- 2. How did she know it wasn't from the island?

  - It billowed
  - It didn't billow.
  - It was black.
- 3. Whose ship was it? Captain Parker's; Edna's dad's
- 4. Why did Edna feel ashamed when she saw her father? Ideas: because she had played in the lifeboat; she had done something
- he'd told her not to do.
  5. The girls needed some care when they got back on the ship. Name 3 things they needed. Ideas (any 3): water, food, medicine for blisters, sunburn cream, bandages
- 6. Did Captain Parker believe the girls' story? 100
- 7. On what day of the week did the girls go overboard? Monday
- 8. On what day of the week did the girls think it was when they got back on the ship? Tuesday
- 9. What day was it really when they got back on the ship? Monday
- 10. What did Edna find to make her think the adventure really happened? red sand (in her pocket)
- 11. The sand in Edna's pocket must have come from the island

#### **Review Items**

- 12. How long ago did dinosaurs live on Earth? \_
- 13. What is it called when the earth shakes and cracks? <code>earthquake</code>

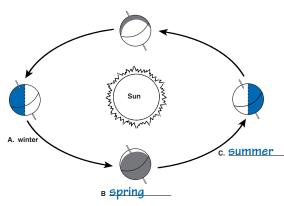
### 12. a hundred million years ago (Accept "millions

© SRA/McGraw-Hill. All rights reserved. of years ago.")

### **WORKBOOK**

- Write the missing seasons on the picture below.
- 15. Shade half of earth A and half of earth C.

D. fall



GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

## Number your paper from 1 through 22.

**Skill Items** 

Here are three events that happened in the story.

Write **beginning**, **middle** or **end** for each event.

1. In the distance was a slim line of smoke. **beginning** 

- Captain Parker opened a door and talked to one of the crew members. 
   middle
- 3. Later that afternoon, Edna was taking her wet clothes to the laundry room.

### She automatically arranged the flowers

- 4. What word means without thinking? automatically
- 5. What word means that she put things where she wanted them? arranged

- 6. Captain Parker's ship passed through a place where hundreds of ships have sunk or been lost. Name that place. Bermuda Triangle
- 7. Two things happen to melted rock when it moves down the sides of a volcano. Name those 2 things. Idea: It cools and hardens.
- 9. Write the letter of the part that shows the mark left by the animal's tail. G
- Write the letter of the part that shows a footprint.



### **TEXTBOOK**

- The earth makes a circle around the sun one time every \_\_\_\_\_\_. year
- 12. How many days does it take the earth to make one full circle around the sun? 365
- 13. How many heat lines are hitting place R on the map? 4
- 14. How many heat lines are hitting place A? 10
- 15. How many heat lines are hitting place M? 8
- 16. Write the letter of the place that's the hottest.
- 17. Write the letter of the place that's the coldest.  $\,$   $\,$   $\,$
- Write the letter of the place that has the warmest winters.
- 19. Write the letter of the place that's farthest from the equator.  $\,$   $\,$   $\,$
- 20. Why is place M hotter than place R?



- 21. During winter at the North Pole, how much does the sun shine?
  - never · all the time
- 22. During summer at the North Pole, how much does the sun shine?
  - all the time

20. Ideas: It is closer to the equator; it has more heat lines hitting it.

36

Name.



1. Name 3 things that are made by humans. Ideas (any 3): planes, radios, cars, windows, etc.

- 2. What is a person doing when the person makes an object for the first time? inventing
- 3. The person who makes an object for the first time is called an **inventor**
- 4. The object the person makes is called an invention
- 5. Most of the things that we use every day were invented after the year

• 1800 • 1900 • 2200

6. Underline the 5 things that were not invented by anybody.

• chairs • horses • flowers • grass • plane • bottles • snakes • spiders • rugs

### Story Items

- Underline 2 reasons it was embarrassing to go places with Grandmother Esther.
  - She walked fast.
- · She talked a lot.
- She chewed gum.
- · She mumbled to herself.
- She talked loudly.
- 8. What did Grandmother Esther like to talk about?

#### <u>Idea: inventing</u>

- 9. Did she look at the displays of dinosaurs for a long time?
- 10. Underline 3 displays that Grandmother Esther wanted to see.
  - radios
- cave people
- clothing automobiles

- airplanes
- horses
- Lesson

© SRA/McGraw-Hill. All rights reserved

Lesson 36 6

### **WORKBOOK**

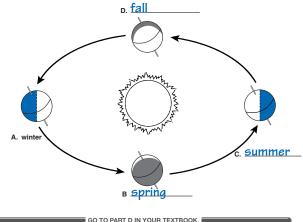
11. Grandmother Esther made a speech in the exhibit hall about the people who invented the airplane. How did Leonard feel?

#### Idea: embarrassed

12. What did the other people in the exhibit hall do after the speech?

#### Review Items

- 13. Write the missing seasons on the picture below.
- 14. Shade half of earth A and half of earth C.



GO TO PART D IN YOUR TEXTBOOK.

6 Lesson 36

© SRA/McGraw-Hill. All rights reserved.

### **TEXTBOOK**

that it was possible for machines to fly, they began inventing better flying machines. They invented faster machines and bigger machines. Look at them!" She waved her arm in the direction of the other airplanes on display. Nearly everyone in the hall looked at the rows of planes.

Grandmother Esther marched down the center aisle of the display. In a great voice, she said, "But none of these later planes would be possible without the first one. And the first one would not have been possible without the inventors—those brave men who didn't listen to other people but who knew that we don't have to stand with our feet stuck in the mud. We can fly with the birds!"

The sound of her voice echoed through the hall. Then, one of the people who had been listening to her began to clap. Then others clapped. Soon there was a loud sound of clapping. Even the guard was clapping. Leonard was very embarrassed, but he didn't want to be the only one not clapping. So he clapped, too. He said to himself, "My grandmother is a real character."

## Number your paper from 1 through 18.

Skill Items

Write the word from the box that means the same thing as the underlined part of each sentence.

adventure enormous however hardened approached displayed mysterious glanced

- 1. The ice cream became hard in the freezer. hardened
- 2. He went to school, but he was sick. however
- 3. She <u>looked quickly</u> at the sign. **glanced**

Use the words in the box to write complete sentences.

actually exhibit directed automatically character displayed divided arranged

4. The new mysterious fish. exhibit, displayed 5. She the flowers. automatically, arranged

B2 Lesson 36

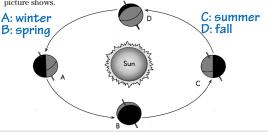
### **TEXTBOOK**

#### **Review Items**

- 6. Which letter shows the place that has the warmest winters? X
- 7. Which letter shows the place that is closest to the equator? X
- 8. Which letter shows the place that is closest to a pole?
- 9. Is the North Pole or the South Pole closer to that letter? **South Pole**



- Write the letter of the earth that has the North Pole tilting away from the sun.
- 11. Write the letter of the earth that has the North Pole tilting toward the sun.  $\begin{tabular}{c} \end{tabular}$
- Write the letter of the earth that has darkness all around the North Pole.
- 14. Write **A**, **B**, **C**, and **D**. Then write the season each earth in the picture shows.



Lesson 36

183

- 15. Two things happen to melted rock when it moves down the sides of a volcano. Name those 2 things. Idea: cools and hardens
- 16. What is it called when the earth shakes and cracks? earthquake
- 17. Most of the things that we use everyday were invented after the year
  - 1900
  - 2000 • 1800
- 18. Write the letters of the 5 things that were not invented by anybody. a, c, d, f, h

  - a. horses
  - b. buildings c. flowers
  - d snakes
  - e. shoes
  - f. bushes
  - g. doors
  - h. cows i. wagons
  - j. hats

184

### **WORKBOOK**

Name

Story Items

1. What was wrong with the waterbed that Grandmother Esther invented? Idea: It leaked.

2. What did Grandmother Esther's folding bike sometimes do when a person was riding it? Idea: folded up

3. Underline 2 things that Grandmother Esther ate for lunch.

- apple • cake
- egg
- donut • sandwich
- 4. Did Leonard know what he wanted to invent? 10
- 5. At first Leonard thought that he couldn't be an inventor because

Idea: Everything was already invented

6. Did Grandmother Esther agree? 110

7. The men who invented the first airplane saw a need. What need?

Idea: to get places faster

8. There was a need for the first automobile because people had problems with horses. Underline 2 problems.

- Horses need care. Horses are slow.
- · Horses are strong.
- · Horses like to run.
- 9. The first thing you do when you think like an inventor is find a **need**

10. What's the next thing you do?

- · Ask questions.
- · Meet the need.
- Go to a museum.

© SRA/McGraw-Hill. All rights reserved

### **WORKBOOK**

#### **Review Items**

11. Draw arrows at J, at K and at L to show the way the melted rock moves. J melted rock

12. What is a person doing when the person makes an object for the first time? inventina

13. The person who makes an object for the first time is called an inventor

14. The object the person makes is called an invention

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

Grandmother Esther was still talking as she ate her sandwich. "The inventor sees things that are not there yet. The inventor thinks about how things could be. Everybody else just sees things as they are now."

Leonard nodded his head. For a moment he thought about what she said. Then he asked, "But how do you think about things that haven't been invented? What do you do, just think of make-believe things?

She coughed and then she shouted, "Make-believe? Inventors don't deal in make-believe. They deal in what people need. That's where the invention starts. The inventor looks around and notices that people have trouble doing some things. The inventor sees a need that people have." Grandmother Esther stuffed the rest of her sandwich in her mouth. In an instant, she continued talking. "After the inventor sees a need, the inventor figures out how to meet that need."

"I don't understand," Leonard said.

She pointed back toward the exhibit hall and said, "The two men who invented the airplane saw a need. They saw that people could get places faster if they could fly in a straight line rather than going around on roads. They said to themselves, 'Let's make something that will let people go places faster.' So they invented a flying machine."

She continued, "The person who invented the car saw a need. That person saw that horses were a lot of work. People spent a lot of time feeding them and taking care of them. With a car, people would save a lot of time. With a car they could also go faster from place to place.

She pointed her finger at Leonard. "Remember, if you want to be an inventor, start with a need. Then figure out how to meet that need."

Number your paper from 1 through 21.

Review Items

1. Write the letters of the 3 things you find in the Bermuda Triangle. a, d, f

a. huge waves b. mountains

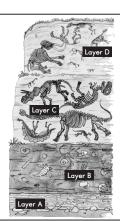
c. streams d. whirlpools e. ice floes f. sudden storms

187

2. The picture shows half a hailstone. How many times did the stone go through a cloud? 6



- What is a person doing when the person makes an object for the first time? inventing
- 4. The person who makes an object for the first time is called an inventor
- 5. The object the person makes is called an ....... invention
- - a. places with a few ducks
  - b. places with no geese or ducks
  - c. places with a few geese
  - d. places with many geese
- 7. Write the letter of the layer that went into the pile **first**.
- 8. Write the letter of the layer that went into the pile **next**.
- 9. Write the letter of the layer that went into the pile last.
- 10. Which layer went into the pile earlier, B or C?
- 11. Which layer went into the pile earlier, D or C?
- 12. Write the letter of the layer where we would find the skeletons of humans.
- 13. Write the letter of the layer that has dinosaur skeletons.
- 14. Write the letter of the layer where we would find the skeletons of horses.



188 / esson

### **TEXTBOOK**

- 15. When days get longer, is the North Pole tilting toward the sun or away from the sun? toward the sun
- 16. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 17. In April, the sun shines for more than hours each day in Alaska. 12
- Which globe shows how the earth looks on the first day of winter?
- 19. Which globe shows how the earth looks on the first day of summer?







- 20. How long ago did dinosaurs live on the earth?
  - · a hundred years ago
  - · a hundred million years ago
  - a million years ago

#### **Study Item**

21. Today's story mentions the two men who invented the first airplane. Look in a book on airplanes, in an encyclopedia or on a computer and see if you can find out the names of these two men. Orville and Wilbur Wright

Lesson 37

189

### **WORKBOOK**

Name .

### Story Items

- What was wrong with the waterbed that Grandmother Esther invented?
   Idea: It leaked.
- 2. At first Leonard thought that he couldn't be an inventor because ldea: Everything was already invented
- The first thing you do when you think like an inventor is find a need/problem
- 4. What's the next thing you do?
  - Ask questions.
  - Meet the need.
  - Go to a museum.
- 5. Leonard's father had two ideas for inventions. One was something that cut down on traffic. What was his other idea?

### <u>ldea: a money tree</u>

- 6. Did Leonard's father think like an inventor? 110
- 7. Leonard's mother had an idea for an invention. What was it?

### <u>Idea: an automatic list writer</u>

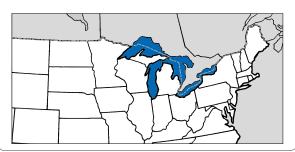
- 8. Had Grandmother Esther heard that idea before? Yes
- 9. Did Grandmother Esther like that idea?
- 10. Did Leonard get any good ideas for inventions by talking to people?
- 11. What did Leonard think the hardest part of being an inventor was?

  Idea: figuring out what to invent

### **WORKBOOK**

#### **Review Items**

- 12. How many Great Lakes are there? five (5)
- 13. Color the Great Lakes on the map.



14. The picture below shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







GO TO PART C IN YOUR TEXTBOOK.

70 Lesson 38

© SRA/McGraw-Hill. All rights reserved

writes down things when you get low on them. But every time I turn around, here she is again, talking about that same invention. I think your mother's problem is that she hates to go grocery shopping and she doesn't like to make up grocery lists. Now I'm not saving that it's impossible to invent something that would make up lists. I'm just saying that you're looking at one inventor who doesn't know how to do it."

"Okay," Leonard said. "Thanks anyhow." As he left the room, Grandmother Esther was looking at her magazine, talking to herself. She was saying, "Again and again and

again I kept telling her, I don't know how to do it. But she kept coming back with the same idea, that silly list writer."

During the week that followed. Leonard talked to nearly everybody about things they thought should be invented. At the end of the week, he didn't have any good ideas for inventions. But he had discovered something. People just don't seem to be very good at telling about things that they need. Leonard said to himself, "Maybe the hardest part of being an inventor is finding something to invent."

## Number your paper from 1 through 24.

Skill Items

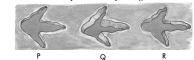
#### They were impressed by her large vocabulary.

- What word means they thought her vocabulary was very good? impressed
- 2. What word refers to all the words a person knows? vocabulary

#### **Review Items**

### 3. Idea: to get to places faster

- 3. The men who invented the first airplane saw a need. What need?
- 4. Write the letter of the footprint made by the heaviest animal.
- 5. Write the letter of the footprint made by the lightest animal.  $\square$



192

### **TEXTBOOK**

- 19. Write the letter of the earth that shows the person in daytime.
- $20. \ \,$  Write the letter of the earth that shows the person 6 hours later.
- 21. Write the letter that shows the person another 6 hours later.  $\,\,$
- 22. Write the letter that shows the person another 6 hours later.  $\ensuremath{\mathsf{W}}$







- 23. Write the letters of the 2 kinds of places that are safe for geese.
  - a. places with many geese
  - b. places with a few geese
  - c. places with a few ducks
  - d. places with no geese or ducks

#### Study Item

- $24. \ {\rm The} \ {\rm two}\text{-wheeled}$  bicycle is not very old. It was probably hard for somebody to get the idea of a two-wheeled bicycle because it seemed impossible for somebody to move along on two wheels without falling over. Find out when James Starley invented his two-wheeled *Ariel* bicycle. 1871 two-wheeled Ariel bicycle.
- 194 Lesson 38

### TEXTBOOK

The picture shows marks left by an animal.

- 6. Which arrow shows the direction the animal is moving? Q
- 7. Write the letter of the part that shows a footprint. 5
- 8. Write the letter of the part that shows the mark left by the animal's tail.



- 10. Where are most wild geese born? Canada
- 11. In which direction do geese fly in the fall? South
- 12. What is this trip called? migration
- 13. The s are the coldest places on the earth, and the the hottest place on the earth. pole, equator
- 14. Which letter shows the part of the earth that receives more heat from the sun than any other part? G
- 15. Which letter shows a part of the earth that receives less heat from the sun than any other part? Z



- 16. If you can see the sun, is it daytime or nighttime on your side of the earth? daytime
- 17. What is it on the other side of the earth? nighttime
- 18. The earth turns around one time every hours. 24

Lesson 38

193

### **WORKBOOK**

Name

- A Story Items
- 1. Leonard's mother had an idea for an invention. What was it?
  - · a vacation that lasted all year long
  - an automatic grocery list writer
  - · an automatic car washer
- 2. What did Leonard think the hardest part of being an inventor was?

### Idea: figuring out what to invent

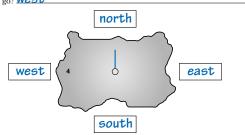
- 3. Grandmother Esther told Leonard about 2 kind of dreams. Underline those  $2\,$ 
  - · the dreams of a butterfly
- silly wishes
- · the dreams of an inventor
- 4. Why was Leonard ready to give up trying to be an inventor? Idea: He couldn't figure out what to invent.
- 5. Leonard discovered that he needed a shoe checker. How did he know about that need? Idea: He didn't do a good job of checking his shoes.
- 6. Is asking people about their needs the best way to get ideas for inventions?
- 7. The best way to think like an inventor is to do things. When you do things you look for needs/problems \_\_\_\_ that you have.

### Review Items

- 8. In which direction do geese migrate in the fall? **South**
- 9. In which direction do geese migrate in the spring? north

C SRA/McGraw-Hill. All rights reserved

- Write the directions north, south, east and west in the boxes
- 11. Make a line that starts at the circle on the map and goes north.
- 12. If you start at the circle and move to the number 4, in which direction do you go? west



- 13. Shade the part of the earth where it is nighttime.
- 14. Which side of the earth is closer to the sun, **A** or **B**?
- 15. Which side of the earth is in nighttime?
- 16. Which side of the earth is in daytime?





17. Fill in the blanks to show the four seasons.

winter, spring , summer, fall, **winter** spring, <u>summer</u> fall

GO TO PART C IN YOUR TEXTBOOK.

### TEXTBOOK

when he had almost cleaned the last footprint on the kitchen floor, an idea hit him. It hit him so hard that it put a smile on his face. Just like that, he knew how to think like an inventor. He said out loud, "I need a shoe checker. I know I need it because when I don't have one. I don't do a good job of checking my shoes.

A shoe checker wasn't a bad idea for an invention. But the idea wasn't the most important thing to Leonard. The way he got the idea was the important thing. He didn't do something well. Then he figured out that he needed something to help him do it well.

That's how to figure out things to invent. You don't ask people. You do things. And when you do them, you pay attention to problems that you have. Each of the problems that you have tells you about something that vou could invent to solve the problem.

Leonard's mother walked into the kitchen and saw Leonard smiling. "This is the first time I've seen you have a good time while you clean up a mess," she said.

"That's because I like this mess," Leonard said.

His mother shook her head. "He must take after his grandmother," she said to herself.

## Number your paper from 1 through 20.

Skill Items

Here are three events that happened in the story.

- Write **beginning**, **middle** or **end** for each event.
- 1. Leonard's mother walked into the kitchen and saw Leonard smiling. end
- 2. Grandmother Esther was talking to herself about dreams. middle
- 3. One of Leonard's friends, Frank, suggested inventing a vacation that lasted all year long. beginning

#### Use the words in the box to write complete sentences. arranged repeated automatically stomach vocabulary

4. She the flowers. automatically, arranged

5. They were by her large impressed, vocabulary

197

### **TEXTBOOK**

#### 7. Idea: figure out how to meet the need/solve the problem

#### **Review Items**

- 6. The first thing you do when you think like an inventor is find a need/problem
- 7. What's the next thing you do?
- 9. Where are most wild geese born? Canada
- 10. In which direction do geese fly in the fall? **South**
- 11. What is this trip called? migration

Choose from these words to answer items 12-14:

- geese
- Florida poles
- Canada
- equator • migration
- 12. The heat that the earth receives comes from the \_\_\_\_\_. **SUN**
- 13. The part of the earth that receives more heat than any other part is the equator
- 14. The parts of the earth that receive less heat than any other part are called the poles
- 15. The sun shines
  - $\bullet\,$  some of the time
- all of the time
- 16. Can you see the sun all day long and all night long?
- 17. Things closer to the bottom of the pile went into the pile earlier
- 18. Write the letter of the storm clouds.
- 19. Write the letter of the clouds that may stay in the sky for days
- 20. Write the letter of the clouds that have frozen drops of water.







Lesson 39

### **TEXTBOOK**

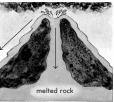


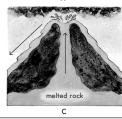


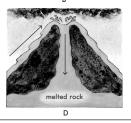
Number your paper from I through 18. one hundred million years ago 1. How long ago did dinosaurs live on Earth?

2. Each picture has 2 arrows that show how the melted rock moves. Write the letter of the picture that shows 2 correct arrows.









- 3. Two things happen to melted rock when it moves down the sides of a volcano. Name those 2 things. Idea: cools and hardens
- 4. What is it called when the earth shakes and cracks? earthquake
- 5. What is a person doing when the person makes an object for the first time? inventing
- 6. The person who makes an object for the first time is called an inventor 7. The object the person makes is called an invention

• 2200 • 1800 • 1600

 Write the letters of the 5 things that were invented by somebody. a, d, f, g, j

a. radios f. trains
b. trees g. shoes
c. killer whales h. birds
d. desks i. dirt
e. ice j. computers

10. The men who invented the first airplane saw a need. What need? Idea: to get to places faster

11. The first thing you do when you think like an inventor is find a need/problem

12. What's the next thing you do? Idea: figure out how to meet the need/solve the problem

#### **Skill Items**

For each item, write the underlined word or words from the sentences in the box.

She automatically arranged the flowers.

They were impressed by her large vocabulary.

The new exhibit displayed mysterious fish.

13. What underlining means showed? displayed

14. What underlining describes things we don't understand? mysterious

15. What underlining refers to all the words a person knows? vocabulary

16. What underlining means that she put things where she wanted them? arranged

17. What underlining means an arrangement of things for people to look at? exhibit

 What underlining means they thought her vocabulary was very good? impressed

END OF TEST 4

200 Lesson

### **WORKBOOK**

Name \_\_\_\_\_

### Story Items

When Leonard did things like washing the car, what did he pay attention to? Idea: problems he had

2. Each problem told Leonard about something he could

invent to solve the problem

3. How long did Leonard try to find different problems?

4. What invention did he think would solve the problem he had with eggs? Idea: something to crack eggs

5. What problem did Leonard have with his clothes at bedtime?

Idea: He forgot to hang up his clothes.

6. What invention did he think could solve that problem?

Idea: a tape to remind him to hang up his clothes

7. What invention did Leonard think could solve the problem he had when it rained? Idea: a coat with an umbrella

8. What problem did Leonard have when he washed his dog? ldea: He got soaked.

9. Which invention did Leonard's mother think he should make?

Idea: a grocery list writer

 Did Grandmother Esther name an invention that Leonard should make? 110

© SRA/McGraw-Hill. All rights reserved

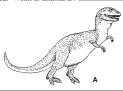
esson 41

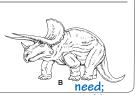
### WORKBOOK

### **Review Items**

Use these names to answer the questions:  ${\bf Tyrannosaurus}, {\bf Triceratops}.$ 

- 11. What is animal A? **Tyrannosaurus**
- 12. What is animal B? **Triceratops**

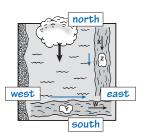




- 13. The first thing you do when you think like an inventor is find a **problem**
- 14. What's the next thing you do? Idea: figure out how to meet the need/solve the problem

### Write north, south, east and west in the correct boxes.

- 16. In which direction is ocean current W moving? east
- 17. In which direction is ocean current X moving? South
- 18. Which direction is the wind coming from? north
- Make an arrow above ice chunk Y to show the direction the current will move the ice chunk.
- Make an arrow next to ice chunk Z
  to show the direction the current
  will move the ice chunk.



GO TO PART C IN YOUR TEXTBOOK.

Lesson 41 © SRA/McGraw-Hill. All rights res

### **TEXTBOOK**

Then you'd put the dog in the tub. Next, you'd put the plastic box over the tub. The dog would stick its head out through one of the holes. You could reach through the other holes and wash the dog and you wouldn't get wet while you were washing the dog. "Not bad," Leonard said to himself when he got this idea. "Not bad at all."

Leonard made pictures of some of his ideas. He showed them to the members of his family and he explained how they worked. His father said, "Leonard, I'm impressed."

Leonard's mother said,
"Leonard, those are very good
ideas. But did you ever think of
inventing a machine that would
automatically write out the things
that you need at the grocery
store?"

When Leonard's mother mentioned the list-making machine, Grandmother Esther said, "Stop talking about that crazy invention. Leonard seems to have some good ideas here. They show that the boy has been thinking like an inventor. Now he needs to stop thinking and start inventing." She looked sternly at Leonard.

Leonard smiled and said, "But I still don't know which thing I should invent."

"They're all pretty good," his father said.

His mother said, "I like the machine that makes up a list of things to buy."

Leonard said, "I'm not sure I've found the right idea yet."

Leonard shook his head. He was becoming very tired of trying to be an inventor.

Number your paper from 1 through 13. Review Items 1. tiny drops of water

- 1. What are clouds made of?
- 2. What kind of cloud does the picture show? **storm cloud**
- 3. What happens to a drop of water at B? Idea: It freezes.



Lesson 41

20:

- 4. At which letter would the winters be very, verv hot?
- 5. At which letter would the winters be very, very cold? K



- 6. Female animals fight in the spring to protect their babies
- 7. Name 2 kinds of Alaskan animals that are dangerous in the spring. (Any 2:) polar bears, wolves, killer whales, walruses, etc.
- 8. Name 3 animals that are cold-blooded.
- 9. Name 3 animals that are warm-blooded.
- Which object went into the pile first? Shoe
- 11. Which object went into the pile earlier, the book or the pencil? book
- 12. Which object went into the pile just after the knife? rock
- 8. (Any 3:) fish, sharks, reptiles, etc.



13. What kind of animals lived in the Mesozoic? dinosaurs 9. (Any 3:) humans, bears, dogs, cows, etc.

204

### **WORKBOOK**

Name

### A Story Items

- 1. Underline the reasons that people on the street thought Grandmother Esther was mad at Leonard.
  - · She made faces.
- She talked loudly.
- She pointed her finger. She talked softly.
- She kicked cats.
- 2. What invention did Leonard think could make his grandmother talk in a softer voice? Idea: a buzzer
- 3. What would the invention do when Grandmother Esther talked louder? ldea: buzz louder

#### Grandmother Esther explained how the electric eye works.

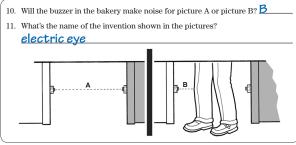
- 4. When somebody walks in the door, the body stops the beam of light from reaching the target
- 5. When the body stops the beam, what happens?

Idea: The buzzer sounds.

- 6. What does that tell the shopkeeper? Idea: that someone is in the store
- 7. Why couldn't the people get into the bakery while Grandmother Esther talked? Idea: She was blocking the doorway.

### **WORKBOOK**

- 8. What did those people say about Grandmother Esther's talk? Idea: It was interesting.
- 9. How did Leonard feel? Idea: embarrassed



#### Review Items

- 12. What color are all geese when they are born? **yellow**
- 13. What's the name of geese that are all white? Snow geese
- 14. What's the name of geese that are gray and white and black? Canada

GO TO PART C IN YOUR TEXTBOOK.

## TEXTBOOK

beam of light and kept it from reaching the target, the buzzer sounded. She explained that the buzzer kept sounding as long as the beam was broken. So when somebody walked in the door, the body would stop the beam of light from reaching the target. When the body stopped the beam, the buzzer sounded. That buzzer told the shopkeeper that somebody was going through the door.

Grandmother Esther was kneeling in front of the doorway as she explained how the beam worked. Several people were trying to get into the bakery. They waited as she explained the electric eye. The shopkeeper was standing behind the counter, looking at her. When she finished her explanation of the electric eye, she said, "This is a good example of a clever invention. The

electric eye is a simple invention, but it has many, many uses.

One of the people who was trying to get into the store said, "Very interesting."

The other person said, "Yes, very interesting."

The shopkeeper said, "Excuse me, could you stand aside and let these people come in?"

Leonard said, "Come on, Grandma, you're blocking the doorway.'

And Grandmother Esther said. "Of course, the electric eye is not as great an invention as the airplane or the electric light. But the electric eye serves many needs.

The shopkeeper said, "Yes, it does.'

Leonard said, "Come on, Grandma, I've got to go to school."

A Number your paper from 1 through 24.

**Skill Items** 

He responded to her clever solution.

- 1. What word means reacted? responded
- 2. What word means very smart? clever
- 3. What word refers to solving a problem? solution

#### Review Items

- on land 4. When geese learn to fly, do they start in the water or on the land?
- 5. They run with their out to the side. **Wings**

Lesson 42

207

© SRA/McGraw-Hill. All rights re

- 6. The earth is shaped like a ball
- 7. The hottest part of the earth is called the
  - desert • equator
- 8. What's the name of the spot that's at the bottom of the earth? South Pole
- 9. What's the name of the spot that's at the top of the earth? North Pole
- 10. What's the name of the line that goes around the fattest part of the earth? equator
- 11. What season is it at the North Pole when the North Pole tilts away from the sun? Winter
- 12. What season is it at the North Pole when the North Pole tilts toward the sun? SUMMer

Write the name of each numbered object in the picture. Choose from these names:

- kavak
- spear
- Eskimo



- 19. In what season are animals most dangerous in Alaska? Spring
- 20. During what season do female animals in Alaska have babies? Spring
- 21. About how long are killer whales? about 12 meters
- 22. Compare the size of killer whales with the size of other whales
- 23 Are killer whales fish? 10
- 24. Tell whether killer whales are warm-blooded or cold-blooded. Warm-blooded

#### 22. Idea: Other whales are longer than killer whales.

### **WORKBOOK**

Name

### A Story Items

1. Leonard got his idea for a great invention when Grandmother Esther told him to do something. What did she tell him to do?

Idea: Turn off the lights.

Leonard's original invention had problems.

- 2. What does the light in a dark room do when you walk into the room?
- 3. What does the light do when you leave the room?
  - turn off
- 4. Let's say two people walk into a dark room. What happens to the light in the room when the first person enters?
- 5. What happens to the light when the second person enters? It turns off.
- 6. What will Leonard use to make the lights work automatically? electric eve
- 7. Did Leonard's mother understand how his invention would work?
- 8. Grandmother Esther told Leonard that every invention has problems
- 9. So what does the inventor have to do?
  - quit solve the problems
- · hide the problems

Lesson 43

### **WORKBOOK**

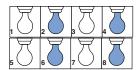
Here's the rule about an electric eye: Each time the beam of light is broken, the  $\boldsymbol{light\ changes}.$  Shade the bulbs that are off for each problem. The first problem is already done for you

10. The light is off. The beam is broken 4 times.

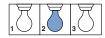


Is the light **on** or **off** at the end? **off** 

- 11. Here's another problem. The light is off. The beam is broken 8 times.
  - a Shade the bulbs that are off



- b. Is the light **on** or **off** at the end? **off**
- 12. Here's another problem. The light is off. The beam is broken 3 times.
  - a. Shade the bulbs that are off



b. Is the light on or off at the end? Of

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

Number your paper from 1 through 24.

Skill Items

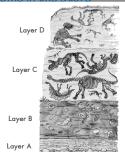
Use the words in the box to write complete sentences. device outfit solution entered mentioned vocabulary impressed responded

1. They were by her large impressed, vocabulary 2. He to her clever responded, solution

#### **Review Items**

Here's how an electric eye at a store works.

- 3. When somebody walks  $\underline{\text{in the}}$  door, the body stops the beam of light from reaching the **target**
- 4. When the body stops the beam, what does the device do next?
- 5. What does that tell the shopkeeper? Idea: that someone has come in the store
- 6. Write the letter of the layer that went into the pile first.
- 7. Write the letter of the layer that went into the pile next. B
- 8. Write the letter of the layer that went into the pile last.
- 9. Write the letter of the layer that we live on.
- 10. What's the name of layer C? Mesozoic



4. Idea: it sounds the buzzer

212 Lesson 43

Lesson 43

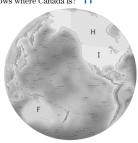
43

© SRA/McGraw-Hill. All rights reserved

11. Name the country that is just north of the United States. Canada

12. Which letter shows where the United States is?

13. Which letter shows where Canada is?



14. The picture shows half a hailstone. How many times did the stone go through a cloud?



- 15. What's the name of geese that are all white? Snow geese
- Canada 16. What's the name of geese that are gray and white and black?
- 17. What color are all geese when they are born? yellow geese
- 18. How old are geese when they mate for the first time? 3 (years old)
- 19. After male and female geese mate, how long do they stay together? until one goose dies
- 20. Most geese live for about years. 30
- 21. When geese learn to fly, do they start in the water or on the land? on the land
- 22. They run with their out to the side. Wings
- 23. How many poles are there? 2
- 24. The farther you go from the equator, the it gets.
  - hotter  $\bullet$  colder

213 Lesson 43

### **WORKBOOK**

Name

### A Story Items

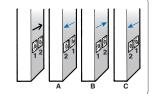
- 1. At the beginning of today's story, Leonard was trying to solve this problem: When a second person goes into the room,
  - the lights go on the lights stay on the lights go off
- 2. Leonard saw a sign that gave him a clue about solving his problem. What kind of sign did he see?

#### one-way

- 3. His invention had to know whether a person was moving
  - in or out
    - fast or slow
- now or later
- 4. So how many beams does a doorway need? 2
- 5. If a person moves **into** the room, which beam will be broken

first—the inside beam or the outside beam? outside beam

- 6. Which beam will be broken next? inside beam
- Will the lights turn on or off? On.
- 8. The picture shows two electric eye beams on the side of each door. The number 1 shows the beam that is broken first. The number 2 shows the beam that is broken next. On each picture, draw an arrow to show which way the person is moving. The first arrow is already drawn.



### **WORKBOOK**

Here's the rule about an electric eye: Each time the beam of light is broken, the light changes.

9. a. The light is off. The beam is broken 3 times. Shade the bulbs that are off.



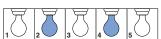
b. Is the light **on** or **off** at the end? **O**1

10. a. The light is off. The beam is broken 6 times. Shade the bulbs that are off.



b. Is the light **on** or **off** at the end? **off** 

11. a. The light is off. The beam is broken 5 times. Shade the bulbs that are off.



b. Is the light on or off at the end? Off

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

2. Ideas: almost jumped out of his seat; yelled "I've got it!"; got goose bumps



Leonard told Grandmother Esther how to solve the problem. "On the side of the door we put two electric eyes, not one." Leonard continued, "The electric eyes are side by side. When somebody goes through the door, they will break one beam first, then the second beam. If the outside beam is broken first and the inside beam is broken



next, the person is moving into the room.'

Leonard continued to explain, "If the inside beam is broken first and the outside beam is broken next, the person is moving out of the room. We make the electric eye device turn on the light if somebody goes into the room and turn off the light if somebody goes out of the room.'

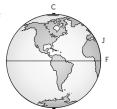
#### 4. Idea: because Grandmother Esther was Number your paper from 1 through 26. playing drums Story Items

- In today's story, what was Leonard doing that made two boys on the street giggle and point at him? Idea: talking to himself
- 2. What did Leonard do when he figured out the solution?
- 3. Where was he? (arithmetic) class; in school
- 4. When Leonard got home, his mother was wearing earmuffs. Why?
- 5. How many electric eyes will Leonard need on each doorway? 2
- 6. How many beams will go across the doorway?

- 7. Leonard's first invention had problems. Let's say two people walk into a dark room. What happens to the light in the room when the first person enters? It turns on.
- 8. What happens to the light when the second person enters? It turns off.

#### **Review Items**

- 9. Which came earlier on Earth, dinosaurs or horses? dinosaurs
- 10. Which came earlier on Earth, strange sea animals or dinosaurs? strange sea animals
- 11. What's the name of the place shown by the letter C? North Pole
- 12. Which letter shows the hottest place?
- 14. Which letter is farthest from the equator?  ${f C}$



- 15. What are clouds made of?
- 16. What kind of cloud does the picture show? **storm clouds**
- 17. What happens to a drop of water at **B**? **Idea: It freezes.**



15. tiny drops of water

sson 44

217

### **TEXTBOOK**

- 18. Most geese live for about years. 30
- 19. How old are geese when they mate for the first time? 3 years old
- 20. After male and female geese mate, how long do they stay together? Idea: until one goose dies
- 21. Which letter shows the place that is closest to the equator?  $\,\,$
- 22. Which letter shows the place that is closest to a pole?
- 23. Is the North Pole or the South Pole closer to that letter?

South Pole



24. Name 2 things that can make an ice chunk drift.

wind and current

#### **Study Items**

Grandmother Esther talked about what a great invention the electric light bulb is. The man who invented it was named Thomas Alva Edison.

- 25. Find out when he invented the electric light bulb. 1879
- 26. Find out 2 other things that he invented. (Any 2:) phonograph; automatic telegraph system; stock quotation printer; kinetoscope; etc.

218 Lesson 4

### **WORKBOOK**

Name \_\_\_\_\_

Story Items

45

 In the last story, Leonard saw a sign that gave him a clue about solving his problem. What kind of sign did he see?

#### one-way

- 2. Would a person be moving into the room or out of the room if the **inside** beam is broken first? **Out of the room**
- 3. Which way would a person be moving if the **outside** beam was broken first? **into the room**
- 4. Leonard's original idea had a problem. What would happen if three people were in a room and one person left?

#### Idea: The lights would go out.

- 5. Grandmother Esther told Leonard that his device could not **count**
- Letting water out of the sink gave Leonard an idea about his counter. What number did his counter have to count to? Zero: (O)
- 7. Every time somebody goes into the room, what does the counter do?

• <u>+1</u> • -1 • -0

8. Every time somebody goes out of the room, what does the counter do?

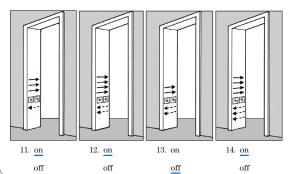
• +1 • -1 • -0

- What number does the counter end up at when the last person leaves the room? ZEPO: (0)
- 10. What happens to the lights when the counter is at zero?

They turn off.

### **WORKBOOK**

The solid arrows show people going into the room. The dotted arrows show people leaving the room. For each picture, **underline** the word that tells about the lights in the room.



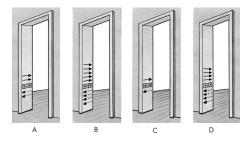
GO TO PART C IN YOUR TEXTBOOK.

Leonard ran into the kitchen Grandmother Esther was starting to eat her salad. He showed her the drawing and explained. "The device can tell each time somebody goes into the room and each time somebody goes out. So we make a counter that counts forward each time somebody goes into the room. If four people go into the room, the counter counts one, two, three, four. Each time somebody leaves the

room, the counter counts backward. So if three people leave, the counter counts backward: three, two, one, But the lights don't go off until the counter counts back to zero."

Leonard continued to explain, "When the last person leaves the room, the counter counts back to zero. Now the lights go off."

Grandmother Esther jumped out of her chair, threw her arms around Leonard, and gave him a kiss.



### Number your paper from 1 through 25. **Story Items**

- 1. How many electric eyes did Leonard use for his invention? 2
- 2. How many beams went across the doorway? 2
- 3. If a person moves into a room, which beam will be broken firstthe inside beam or the outside beam? outside beam
- 4. Which beam will be broken next? inside beam

221 Lesson 45

### TEXTBOOK

- 5. The solid arrows show how many times people went into the room. How many people went into the room?  $\ensuremath{\mathbf{3}}$
- 6. The dotted arrows show how many people left the room. How many people left the room? the room. How many people left the room?
- 7. Are the lights on in the room? yes
- 8. How many more people would have to leave the



#### **Skill Items**

Here are three events that happened in the story.

Write beginning, middle or end for each event.

- 9. The water kept going out until there was zero water in the sink.  $\mbox{middle}$
- 10. Leonard told Grandmother Esther that the one-way sign helped him figure out a solution. beginning
- 11. Leonard told his Grandmother Esther how the counter on his device would work. end

#### The patent attorney wrote an agreement.

- 12. What do we call a lawyer whose special job is getting patents for new inventions? patent attorney
- 13. What word means lawyer? attorney
- 14. What word means a promise made by people? agreement
- 15. What word names a license for somebody to be the only person who can make a product? patent

#### **Review Items**

- 16. How many days does it take the earth to make one full circle around the sun? 365
- 17. The earth makes a circle around the sun one time every \_\_\_\_\_. Year

### **TEXTBOOK**

- 18. How many heat lines are hitting place E on the map? 4
- 19. How many heat lines are hitting place G?





- 22. Which letter shows Alaska? G
- 23. Which letter shows the main part of the United States?
- 24. Which 2 letters show where Eskimos live? G, V
- 25. How warm is it during winter in Alaska? Idea: very cold



223 Lesson 45

### **WORKBOOK**

Name

#### Story Items

Answer these questions about Leonard's invention.

- 1. What runs the electric eye?
  - city
    - electricity grandmothers
- 2. What will run the counter? electricity
- $3.\,$  Name 3 things Grandmother Esther does that are unusual for a grandmother. (Any 3:) loves inventions; goes fishing;

plays drums; drives a jeep; takes flying lessons; etc.

- 4. Who paid for the electrical supplies? Grandmother Esther
- 5. How much did they cost? 90 dollars
- 6. The model had a little doorway that was about tall.
- 2 feet 1 meter 1 centimeter
- 7. There was a lightbulb \_ connected to the top.
- 8. The light is off. A doll goes through the doorway. What happens to the light if the outside beam is broken first?

#### Idea: It turns on.

- 9. Did Leonard's device work? Yes
- Did he test it more than 1 time? <u>V65</u>
- 11. What does an inventor get to protect an invention? patent
- 12. If other people want to make copies of an invention, they have to make a deal with the inventor
- 13. What does the inventor usually make those people do? ldea: pay

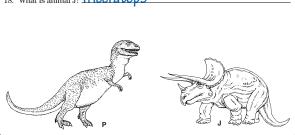
© SRA/McGraw-Hill. All rights reserved

- 14. Special lawyers who get protection for inventions are called
  - patents
- doctors patent attorneys
- 15. How many meetings did Leonard and Grandmother Esther have with a special lawyer? 3
- 16. How much money did Grandmother Esther pay the lawyer?
- 3 thousand dollars 3 hundred dollars 1 thousand dollars

#### Review Items

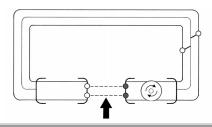
Use these names to answer the questions: Tyrannosaurus, Triceratops.

- 17. What is animal P? **Tyrannosaurus**
- 18. What is animal J? Triceratops



GO TO PART C IN YOUR TEXTBOOK.

### TEXTBOOK



Number your paper from 1 through 25.



#### **Review Items**

- 3. The solid arrows show how many times people went into the room. How many people went into the room? 4
- 4. The dotted arrows show how many times people left the room. How many people left the room?  $\begin{cases} \begin{cases} \be$
- 5. Are the lights on in the room? Yes
- 6. How many more people would have to leave the room before the lights go off?



227

### **TEXTBOOK**

Answer these questions about the counter on Leonard's device:

- 7. Every time somebody goes into the room, what does the counter do?
- -1 • +1 8. Every time somebody goes out of the room, what does the counter do?
  - - 1 • - ()
- 9. What number does the counter end up at when the last person leaves the room?
- 10. What happens to the lights when the counter gets to that number? **They turn off**

For each picture, tell if the lights in the room are  ${\bf on}$  or  ${\bf off.}$  The solid arrows show people going into the room. The dotted arrows show people leaving the room.



- 15. Two things happen to melted rock when it moves down the side of a volcano. Name those 2 things. Ideas: cools and hardens
- 16. What is it called when the earth shakes and cracks? earthquake
- 17. The earth makes a circle around the sun one time every \_\_\_\_\_. year
- 18. How many days does it take the earth to make one full circle around the sun? 365

### **TEXTBOOK**

- 19. Is it easier to fly alone or with a large flock? with a large flock
- 20. Flying near the back of a large flock is like riding your bike
- with the wind · against the wind 21. During winter at the North Pole, how much does the sun shine?
  - all the time never
- 22. During summer at the North Pole, how much does the sun shine?
  - all the time never
- 23. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 24. When days get longer, is the North Pole tilting toward the sun or away from the sun? toward the sun
- In April, the sun shines for more than hours each day in Alaska.

228 Lesson 46 Lesson 46

229

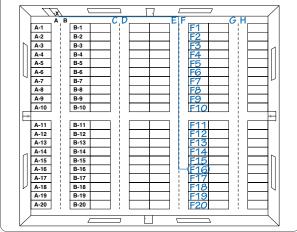
Name

### A Story Items

1. On which table would Leonard set up his display? F16

Look at the picture below. Not all the spaces have numbers and letters.

- 2. Fill in the letters that go at the top of each aisle
- 3. Number all the tables in the aisle where Leonard's display was.
- 4. Circle Leonard's table.
- 5. Leonard and his grandmother started where the  $\boldsymbol{X}$  is. They first went across the hall to the correct aisle. Then they walked down that aisle to their table. Draw a path that shows how they went from the X to their table.



© SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

announcements. One announcement was, "No smoking in the hall." Another announcement told the inventors where their tables were Each inventor had a blue piece of paper that had a letter and a number on it. The announcer explained to the inventors that all slips that had the letter A would be

in the first aisle, that the Bs would be in the next aisle, that the  $\operatorname{Cs}$ would be in the next aisle, and so forth. Here's what it said at the top of Leonard's slip: F16.

As Leonard and his grandmother walked to the aisle, Leonard said, "This is the biggest hall I've ever seen in my life.



Number your paper from 1 through 26. **Story Items** 

Write the words that go in the blanks to tell about the steps Leonard took to invent the electric eye device.

- 1. He started with a
  - solution • need • light

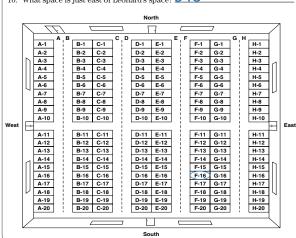
Then he got an idea for an invention.

- model: 2. Then he built a of the invention to show it worked. display
- 3. Then he got a to protect his invention. patent

Lesson 47

### **WORKBOOK**

- 6. Circle Leonard's table
- 7. What space is just north of Leonard's space?  $\overline{\text{\textbf{F15}}}$
- What space is just west of Leonard's space? <u>E16</u>
- 9. What space is just south of Leonard's space? F17
- 10. What space is just east of Leonard's space?  $\underline{616}$



GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

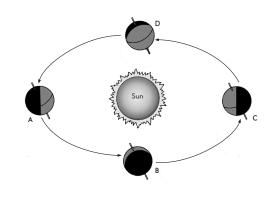
- 4. What are businesses that make things called? manufacturers
- 5. What plan did Grandmother Esther have for getting in touch with these businesses?
  - · an invention fair a magazine a lawyer
- 6. What was first prize at the invention fair? 20 thousand dollars
- 7. What was second prize? 10 thousand dollars
- 8. What did Grandmother Esther think they would win? first prize; 20
- 9. On what day did the fair start? Friday
- 10. At what time did the fair start? 1001
- 11. The invention fair was held in a great hall
- 12. Why couldn't the inventors set up their displays the night before the fair? Idea: There had been a basketball game.

# first; ear<u>lier</u>; earliest

- 13. Things closer to the bottom of the pile went into the pile
- 14. What does an inventor get to protect an invention? patent
- 15. Special lawyers who get protection for inventions are called
  - doctors patents patent attorneys
- 16. If other people want to make copies of an invention, they have to make a deal with the inventor
- 17. What does the inventor usually make those people do? Idea: pay
- 18. The solid arrows show how many times people went into the room. How many people went into the room? 3
- 19. The dotted arrows show how many times people left the room. How many people left the room? the room?
- 20. Are the lights on in the room? yes
- 21. How many more people would have to leave the room before the lights go off?



- 22. Write the letter of the earth that has the North Pole tilting away from the sun.
- 23. Write the letter of the earth that has the North Pole tilting toward the sun.
- 24. Write the letter of the earth that has darkness all around the North Pole.
- 25. Write the letter of the earth that has daylight all around the North Pole.  ${\color{blue}\pmb{C}}$
- 26. Write A, B, C and D. Then write the season each earth in the picture shows. A: winter; B: spring; C: summer; D: fall



Lesson 47

235

**WORKBOOK** 

Name

### Story Items

- 1. Leonard was very disappointed when the fair opened. Tell why.
  - Lots of manufacturers showed up.
  - Not many people showed up.
  - Grandmother Esther talked too much.
- 2. How many people stopped at Leonard's display the first afternoon?
- 3. How many of them seemed very interested? Idea: none
- 4. Why don't smart manufacturers act interested in the inventions that they want?
  - so they don't have to pay as much for the invention
  - because they are at the fair all day long
  - because they want to pay more for the invention
- 5. After supper, there were great crowds of people at the fair. Were these people manufacturers? 10
- 6. Did these people act interested in Leonard's invention? YES
- 7. Name 2 things that make you think the slim woman in the gray coat was a manufacturer. (Any 2:) She'd been at the fair since it opened; she didn't seem interested in Leonard's invention; she wrote in a little book.
- 8. Why would manufacturers want to make their deals before the prizes are announced?
  - so they could go home earlier
  - so they wouldn't have to pay as much
  - · so they had something to do

### **WORKBOOK**

- 9. Grandmother Esther gave 2 reasons that the manufacturers did not wait until the afternoon to make their deals. What are those 2 reasons? 2 ideas:
  - 1. The inventors would be busy (in the afternoon). 2. It would take time to work out deals.

Look at the picture below.

10. Make an I by each inventor.



GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights re

### **TEXTBOOK**

Number your paper from I through 25.

Skill Items

- The applause interrupted his speech.

  1. What word means broke into? interrupted
- 2. What word means the clapping? applause

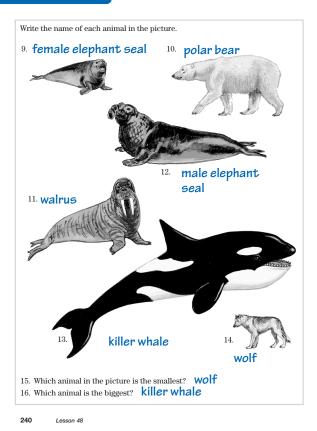
#### Review Items

- 3. Write the letters of the 3 things you find in the Bermuda Triangle. b, c, e
  - a. ice floes b sudden storms
    - c. whirlpools
- e. huge waves
- d streams
- f mountains
- 4. Write the letter of the footprint made by the heaviest animal.  $5. \ \,$  Write the letter of the footprint made by the lightest animal.



- 6. The picture shows marks left by an animal. Which arrow shows the direction the animal is moving?
- 7. Write the letter of the part that shows a footprint.
- 8. Write the letter of the part that shows the mark left by the animal's tail. X





### **TEXTBOOK**

- 17. Which globe shows how the earth looks on the first day of summer?

  18. Which globe shows how the earth looks on the first day of winter?

  H

  Sun

  J
- 19. During which season do ice floes start? Spring
- 20. During winter in Alaska, you can walk far out on the ocean. Tell why. Idea: The ocean is frozen.
- 21. Do ice floes make noise in the winter? yes
- 22. Why do ice floes make noise in the spring?
- 23. In which direction will you drift when you're in an ocean current?
- 24. In which direction will you drift when you're in a strong wind?
- 25. The sare the coldest places on the earth and the the hottest place on the earth. pole, equator

22. Idea: because they are breaking apart23. Idea: in the same direction as the current

24. Idea: in the same direction as the wind

Lesson 48

241

### **WORKBOOK**

Name .

#### Story Items

- Leonard was very disappointed when the invention fair opened. Tell why. Idea: There weren't many people at first.
- Grandmother Esther gave 2 reasons that the manufacturers did not wait until Saturday afternoon to make their deals. What are those 2 reasons? 2 ideas:
  - 1. The inventors would be busy (in the afternoon).
    2. It would take time (3 hours) to work out deals.

Look at the list of deals below.

- 3. **Underline** the best deal for an inventor.
- 4. **Circle** the best deal for a manufacturer.
  - $\bullet \;\; 18 \; \text{thousand dollars}$  and 6 dollars for every copy sold
  - 12 thousand dollars and 6 dollars for every copy sold
  - · 17 thousand dollars and 6 dollars for every copy sold
- 5. The slim woman in the gray coat said that not many people would be interested in Leonard's invention. Does she really think that?

no

- 6. Why did she say it?
  - She didn't want to talk to her boss.
  - She didn't want to tark to her boss.
    She didn't want to pay a lot for the invention.
  - She didn't like the invention.
- 7. Why didn't Grandmother Esther want Leonard to make any deals?
  - because he didn't know how
  - because he was too young
  - because he was too tired

### **WORKBOOK**

- The man with the slim woman wanted to make his company sound good to Leonard and Grandmother Esther. Tell why.
  - Idea: So Leonard would want to make a deal with their company (even though there isn't much money for the invention).
- 9. Did his talk trick Grandmother Esther? 110
- 10. Which prize did Grandmother Esther think Leonard's invention would get? first (prize); 20 thousand dollars
- 11. Let's say a manufacturer had not made a deal for an invention. Which would the manufacturer have to pay more money for, an invention that won a prize or an invention that did not win a prize?

an invention that won a prize

- 12. What lie did Grandmother Esther tell the bald man?
  - ABC Home Products is not interested.
  - $\bullet \ \, \underline{\mbox{ABC}}$  Home Products wants to make a deal.
  - ABC Home Products has too many inventions.
- 13. When Grandmother Esther told a lie, Leonard was going to remind her that
  ABC Home Products Idea: had not told about/made
  a deal

GO TO PART C IN YOUR TEXTBOOK.

SRA/McGraw-Hill. All rights reserved. Lesson 49 90 Lesson 49 © SRA/McGraw-Hill. All rights reserved.



give us your business card. You're going to tell us your best deal. And then we're going to see if that deal is better than the deal ABC Home Products wants to make."

"But Grandma," Leonard said. He was going to remind her that ABC Home Products had not told about the deal they wanted to make.

She interrupted Leonard and said, "I know what you're thinking, Leonard. You want to go with ABC Home Products. But we have to give these other manufacturers a chance, too."

A Number your paper from 1 through 25.



- 1. The patent attorney wrote an agreement
- 2. The applause interrupted his speech.

244

### TEXTBOOK

#### **Review Items** 3. tiny drops of water; 4. storm cloud

- 3. What are clouds made of?
- 4. What kind of cloud does the picture show?
- 5. What happens to a drop of water at **B? Idea: It freezes.**



- 6. What is a person doing when the person makes an object for the first time? **inventing**
- 7. The person who makes an object for the first time is called an inventor
- 8. The object the person makes is called an **invention**
- 9. What are businesses that make things called? manufacturers
- 10. Geese live in large groups called flocks
- 11. Where are most wild geese born? Canada
- 12. In which direction do geese fly in the fall? South
- 13. What is this trip called? migration

Choose from these words to answer each item: • Florida • Canada • moon • sun equator geese poles • migration 14. The heat that the earth receives comes from the sun 15. The part of the earth that receives more heat than any other part is the equator 16. The parts of the earth that receive less heat than any other part are called the poles

> 245 Lesson 49

### **TEXTBOOK**

- 17. Which letter shows the part of the earth that receives more heat from the sun than any other part?
- 18. Which letter shows a part of the earth that receives  ${f less}$ heat from the sun than any other part?



- 19. If you cannot see the sun, is it daytime or nighttime on your side of the earth? nighttime
- 20. What is it on the other side of the earth? daytime
- 21. The earth turns around one time every hours.
- Write the remains a carth that shows the water than the working. 23. Write the letter of the earth that shows the person 6 hours later. 24. Write the letter that shows the person another 6 hours later. X 25 Write the letter that

22. Write the letter of the







246 Lesson 49

### **TEXTBOOK**

TEST 5

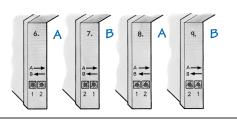


#### Number your paper from 1 through 34.

Here's the rule about an electric eye:  $\bf Each\ time\ the\ beam\ of\ light$ is broken, the light changes.

- 1. The light is off. The beam is broken 2 times. Is the light **on** or **off** at the end? **off**
- 2. The light is off. The beam is broken 5 times. Is the light  ${\bf on}$  or off at the end? On
- 3. The light is off. The beam is broken 8 times. Is the light **on** or **off** at the end? **off**
- 4. How many electric eyes did Leonard use for his invention? 2
- How many beams went across the doorway?

The picture shows two electric eye beams on the side of doors. The number  ${\bf 1}$  shows the beam that is broken first. The number  ${\bf 2}$  shows the beam that is broken next. Write the letter of the correct arrow for each doorway.



Lesson 50

247

#### Answer these questions about the counter on Leonard's device:

- 10. Every time somebody goes into the room, what does the counter do?
  - -1
- 11. Every time somebody goes out of the room, what does the counter do?
  - +1 • -1
- 12. What number does the counter end up at when the last person leaves the room? zero (O)
- 13. What happens to the lights when the counter gets to that number? Idea: They turn off.
- 14. The solid arrows show how many times people went into the room. How many people went into the room? 5
- 15. The dotted arrows show how many times people left the room. How many people left the room? 2
- 16. Are the lights on in the room? yes
- 17. How many more people would have to leave the room before the lights go off? 3





### **TEXTBOOK**

#### 23. patent attorneys

- 22. What does an inventor get to protect an invention? patent
- 23. Special lawyers who get protection for inventions are called
- 24. What are businesses that make things called? manufacturers

Write the words that go in the blanks to tell about the steps you take to invent something.

- 25. You start with a \_\_\_\_\_.
  - light • solution
  - Then you get an idea for an invention.
- 26. Then you build a of the invention to show how it works. **model**
- 27. Then you get a to protect your invention. patent

Skill Items

For each item, write the underlined word from the sentences in the box.

> The patent attorney wrote an agreement. The applause interrupted his speech. He responded to her clever solution.

- 28. What underlining means reacted? responded
- 29. What underlining means lawyer? attorney
- 30. What underlining means a promise made by people? agreement
- 31. What underlining means the clapping? applause
- 32. What underlining means very smart? clever
- 33. What underlining names a lawyer whose special job is getting patents for new inventions? patent attorney
- 34. What underlining refers to solving a problem? solution

END OF TEST 5

Lesson 50

249

### **WORKBOOK**

Name.

#### Story Items

- 1. The slim woman in the gray coat said that not many people would be interested in Leonard's invention. Did she really think that?
- 2. Why did she say it?
  - She didn't like the invention.
  - · She didn't want to talk to her boss
  - · She didn't want to pay a lot for the invention.
- 3. The woman in the gray coat made two offers. Tell about her first offer.
- 10 thousand \_\_\_\_\_ dollars for the invention and 1 dollar
- for every copy that is sold.
- 4. Did Leonard like that offer? **YES**
- 5. Did Grandmother Esther like that offer? 100
- 6. Tell about the offer everyone agreed on.
- 10 thousand \_\_\_\_\_ dollars for the invention and 2 dollars \_\_\_ for every copy that is sold.
- 7. Underline the 2 ways that tell how the slim woman changed after she made the deal.
  - · Her voice was pleasant.
- · Her voice was loud.
- She smiled. She yelled.
- · Her voice was higher.
- · She closed her eyes.
- 8. What did Grandmother Esther and Leonard have to do to finish the deal?
  - win a prize
  - · get another patent
  - sign papers

© SRA/McGraw-Hill. All rights reserved

**WORKBOOK** 

9. Who did Grandmother Esther think would win first prize?

them; Leonard

- 10. Who won first prize? Ronald Hogan
- 11. What was the person's invention? Idea: automatic list-writer
- 12. How much money did Leonard win for his prize?

#### 10 thousand dollars

- 13. Why did Leonard want Grandmother Esther to go on the stage with him?
  - She wanted to go up there.
  - · She helped with his invention.
  - She knew Ronald Hogan.
- 14. Did she want to do that?

#### Review Item

15. The picture shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







GO TO PART C IN YOUR TEXTBOOK.

Lesson 51

© SRA/McGraw-Hill. All rights reserved

Lesson 51

91

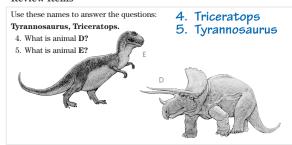
Number your paper from 1 through 22.

Here are three events that happened in the story.

Write beginning, middle or end for each event.

- The next thing Leonard knew, he was holding a check and people were clapping again.
- 2. That evening at 8:30, the lights in the hall were dimmed. middle
- 3. The woman in the gray coat came back to Leonard's display with two men. **beginning**

#### **Review Items**



Write the words that go in the blanks to tell about the steps you take to invent something.

6. You start with a

solution

· electric eye

Then you get an idea for an invention.

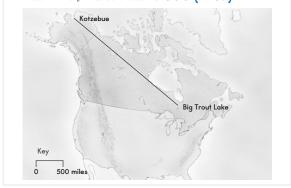
7. Then you build a of the invention to show how it works. **model** 

8. Then you get a to protect your invention. patent

253

### **TEXTBOOK**

- 9 Why don't smart manufacturers act interested in the inventions that they want? Write the letter of the answer.
  - a. because they want to pay more for the invention
  - b. so they don't have to pay as much for the invention
  - c. because they are at the fair all day long
- 10. Write the letter of the best deal for an inventor. C
- 11. Write the letter of the best deal for a manufacturer.
  - a. 5 thousand dollars and 5 dollars for every copy sold
  - b. 8 thousand dollars and 5 dollars for every copy sold c. 12 thousand dollars and 5 dollars for every copy sold
- 12. Write the letters of the 2 kinds of places that are safe for geese. **a, C**
- a. places with no geese or ducks
- c. places with many geese
- b. places with a few geese
- d. places with a few ducks
- 13. The map shows a route. What state is at the north end of the route? Alaska
- 14. What country is at the south end of the route? Canada
- 15. About how many miles is the route? 2500 (miles)



### **TEXTBOOK**

(Any 3:) bears,

- 16. Name 3 animals that are warm-blooded. humans, dogs, etc. 17. Name 3 animals that are cold-blooded. (Any 3:) fish, sharks,
- reptiles, etc.
- В 18. Write the letter of the storm clouds.
- 19. Write the letter of the clouds that may stay in the sky for days at a time. C
- 20. Write the letter of the clouds that have frozen drops of water.







#### Study Items

Look in the Yellow Pages of your phone book to find out 2 things.

- 21. Find out if there are any electric-equipment manufacturers. The word manufacturer may be written like this in the Yellow Pages: mfr. If the Yellow Pages list any electric-equipment manufacturers, write down the name of one manufacturer. That would be the kind of company that would make copies of Leonard's invention.
- $22. \ \mbox{Also look}$  up the names of stores that might sell the copies that are manufactured. These are stores that would be listed under a heading like this: Electric Equipment and Supplies—Retail. The name retail tells you that you can buy things at that store. Write the name of an electric-equipment-and-supply retail store. (the name of one electric-equipmentand-supply retail store)
- 21. (the name of an electric-equipment manufacturer)

Lesson 51

### **WORKBOOK**

Name 8. Ideas: ABC Home Products

dealer; electrical equipment and supplies; a Story Items Specific retailer found in the Yellow Pages

1. The woman in the gray coat made two offers. Her first offer was 10 thousand \_ dollars for the invention and

1 dollar \_ for every copy that is sold.

- 2. Did Leonard like that offer? Yes
- 3. Did Grandmother Esther like that offer? 10
- 4. The offer that everyone agreed on was 10 thousand dollars for the invention and 2 dollars every copy that is sold.
- Ideas: He was talking to ABC 5. Name one reason Leonard didn't have much free time anymore Home Products a lot; he had more friends
- 6. What name did ABC Home Products give to Leonard's invention? Mr. Light Saver

#### Answer these questions about the ad:

- 7. The ad said you should put a light saver in every room of your house
- 8. Who should you see about getting some light savers?
- 9. Leonard's mother solved one problem she had with grocery shopping. She solved that problem by buying
  - a grocery cart

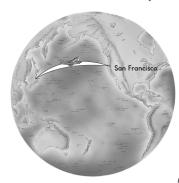
© SRA/McGraw-Hill. All rights reserved.

- a Mr. Light Saver
- · an automatic list-writer
- 10. Leonard's mother still had a problem when she went grocery shopping. What was her problem?
  - opening the trunk while holding groceries
  - turning on lights while holding groceries
  - · holding groceries and playing the drums

GO TO PART D IN YOUR TEXTBOOK.



- Number your paper from 1 through 29.
- 1. The arrow on the map goes from San Francisco to Japan
- 2. Which ocean does the arrow cross? Pacific (Ocean)



Lesson 52

259

### TEXTBOOK

- 3. Which is bigger, Alaska or Japan? Alaska
- 4. Is Japan a state or a country? Country
- 5. How many people live in Japan?
  - 127 million • 127 thousand
- 6. Write the letters of 3 types of products that are used in the United States and manufactured in Japan. b, e, f

e. CD players a. furniture b. TVs f. cars c. books g. rugs

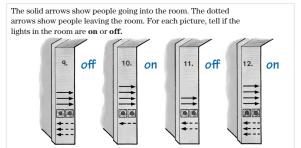
d. Mr. Light Saver

**Skill Items** 

#### She selected a comfortable seat.

- 7. What word tells that the seat **felt** pleasant? **comfortable**
- 8. What word means chose? selected

#### **Review Items**



- 13. What runs an electric eye? electricity; current
- 14. What kind of boat do Eskimos use in the summer? kayak
- 15. Why don't they use those boats in the winter? Ideas: because the Lesson 52 water is frozen; because of the ice floes; because the winds are too strong

### **TEXTBOOK**

### 23. Idea: Killer whales are smaller than other whales.

Write the words that go in the blanks to tell about the steps you take to invent something.

- 16. You start with a
  - need device solution
  - Then you get an idea for an invention.
- 17. Then you build a of the invention to show it works. **model**
- 18. Then you get a to protect your invention. patent
- 19. Write the letter of the best deal for an inventor.
- 20. Write the letter of the best deal for a manufacturer.
  - a. 15 thousand dollars and 4 dollars for every copy sold
  - b. 15 thousand dollars and 8 dollars for every copy sold
  - c. 15 thousand dollars and 5 dollars for every copy sold
- 21. If an invention wins a prize, would a manufacturer have to pay more money for it? **yes**
- 22. About how long are killer whales? about 12 meters
- $23. \ \,$  Compare the size of killer whales with the size of other whales.
- 24. Are killer whales fish? 100
- 25. Tell if killer whales are warm-blooded or cold-blooded.warm-blooded
- 26. Which letter shows the place that has the warmest winters?
- 27. Which letter shows the place that is closest to the equator?
- 28. Which letter shows the place that is closest to a pole?
- 29. Is the North Pole or the South Pole closer to that letter? North



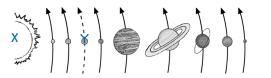
261

## **WORKBOOK**

Name

A

- 1. How many suns are in the solar system? 1
- 2. How many planets are in the solar system? 9
- 3. Name the planet we live on. Earth
- 4. What's in the middle of the solar system? the sun
- 5. Name the only part of the solar system that's burning.
  - our moon
- Earth • the sun
- 6. Is Earth the planet that is closest to the sun? 10
- 7. The sun gives **heat** \_\_\_ and light
- 8. Make an X on the sun.
- 9. Make a Y on Earth



© SRA/McGraw-Hill. All rights reserved.

10. The planets are named below with Mercury first and Venus second. Fill in the names of the missing planets.

Mercury, Venus, Earth \_\_, <sub>Mars,</sub> Jupiter \_\_, Neptune, Pluto Saturn, Uranus

- 11. Which planet is largest? Jupiter
- 12. Which planet is next-largest? Saturn
- 13. How many times larger than Earth is the sun?
- one hundred
- · one thousand
- · ten thousand

### Story Items

- 14. Does today's story take place in the past, the present, or the future? <u>future</u>
- 15. Students who do well on the test will go on a trip. Where will they go? <u>Idea: across the solar system</u>
- 16. About how many students are taking the test with Wendy? 30
- 17. How many students will go on the trip? 10
- 18. What country are those students from? Canada
- 19. How long will the test take? 4 hours
- 20. Why did Wendy feel sick at the end of the story? Idea: She couldn't remember the answer to a question.

GO TO PART D IN YOUR TEXTBOOK.

Lesson 53

© SRA/McGraw-Hill. All rights reserved.

### TEXTBOOK

Wendy wrote answers to the questions and moved to the next item. She read the item and started to feel a little sick. She couldn't remember the answer. She knew

that if she missed more than one or two items on this whole test, she would not go on the trip.

Here was that item: Which planet has more moons, Jupiter or Saturn?

### Number your paper from 1 through 20. Story Items

- 1. What kind of animals are in the picture? geese
- 2. In what country are most wild ones born? Canada
- 3. What is a group of these animals called? flock
- 4. How long do most of them live? about 30 years



Skill Items 5. The applause interrupted his speech.

Use the words in the box to write complete sentences.

business interrupted selected praised excellent comfortable

- 5. The his speech.
- 6. She a seat

**TEXTBOOK** 

6. She selected a comfortable seat.

13. What does an inventor get to protect an invention? patent 14. Special lawyers who get protection for inventions are called

15. If other people want to make copies of an invention, they have to make a deal with the **inventor** 

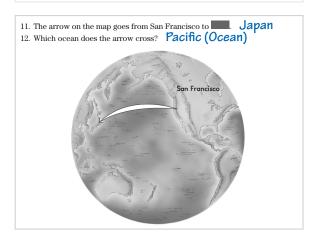
16. What does the inventor usually make those people do? Idea: pay

### **TEXTBOOK**

#### **Review Items**

- 7. The solid arrows show how many times people
- left the room. How many people left the room?
- 9. Are the lights on in the room? Yes
- 10. How many more people would have to leave the room before the lights go off? 3





Lesson 53

#### 267

### 17. Which is bigger, Alaska or Japan? Alaska

18. Is Japan a state or a country? Country

patent attorneys

- 19. How many people live in Japan?
  - 127 • 127 million
- · 127 thousand
- 20. Write the letters of 3 types of products that are used in the United States and manufactured in Japan. d, e, f
  - a. furniture
- e. CD players f cars
- b. Mr. Light Saver c. books

d. TVs

- g. rugs

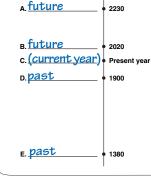
Name



- 1. Write the present year on line C.
- 2. Then write past or future next to each of the other years.
- 3. Write any  $\bf 3$  years that are in the past.

(Accept 3 past years.

4. Write any  ${\bf 3}$  years that are in the future. (Accept 3 future



- 5. Things that have already happened are in the  ${\tt past}$
- 6. Things that are happening now are in the present (time)
- 7. Things that will happen are in the future (time)

### Story Items

years.

- 8. How long is Traveler Four? 405 feet
- 9. How many people are in the crew? 30
- How many passengers does it hold? 200
- 11. How fast can it travel? 1 thousand miles per second

© SRA/McGraw-Hill. All rights reserved

97

### **WORKBOOK**

- 12. How far is it from Earth to Jupiter?
  - 200 million miles · 400 thousand miles • 400 million miles

13. Here's a picture of Traveler Four. Label the lettered parts A engines B passengersection c carao D crew

- 14. Which planet did Wendy know the most about? Earth
- 15. Which planet did she find the most interesting? Jupiter
- 16. Why did she think that planet was the most interesting?  $\_$ <u>ldea: It was the largest.</u>

#### **Review Items**

17. The planets are named below with Mercury first and Venus second. Write the names of the missing planets.

Mercury, Venus, Earth, Mars <u>Saturn</u> ., Uranus, Neptune

GO TO PART D IN YOUR TEXTBOOK.

### TEXTBOOK

Make sure that you know the answers to these questions:

How fast does Traveler Four travel? 1 thousand miles per second

How long would it take Traveler Four to go across the United States? two-and-a-half seconds

How long would it take Traveler Four to go to the moon? 4 minutes

How long would it take Traveler Four to go to Jupiter? four-and-a-half days

How far is it from Earth to Jupiter? 400 million miles

# Write the letters of the 2 manufacturers. A, D

**TEXTBOOK** 

**Review Items** 

Write the words that go in the blanks to tell about the steps you take to invent something.

 Person C talked to Leonard for 15 minutes about the invention. · Person D listened to what Leonard had to say and then said,

8. Here's the rule: People who don't show interest in an

"Thank you," and walked away from the display.

· Person A walked by the display without saying anything. Person B watched the display and then praised Leonard on

9. You start with a

 solution light need

Then you get an idea for an invention.

invention are manufacturers.

his wonderful invention.

10. Then you build a of the invention to show how it works. **model** 

11. Then you get a to protect your invention. patent

12. Why don't smart manufacturers act interested in the inventions

- that they want? Write the letter of the answer. a. because they want to pay more for the invention
- b. because they are at the fair all day long
- c. so they don't have to pay as much for the invention
- 13. Name the planet we live on. Earth
- 14. What's in the middle of the solar system? 5un
- 15. Name the only part of the solar system that's burning. SUN
- 16. Is Earth the planet that is closest to the sun? 10
- 17. The sun gives and to all the planets. heat, light
- 18. Which planet is largest? Jupiter
- 19. Which planet is next-largest? Saturn
- 20. How many times larger than Earth is the sun?
  - 2 thousand 1 hundred 1 thousand

Number your paper from 1 through 20.

#### **Story Items**

- 1. How many moons does Jupiter have? 63
- 2. How many moons does Saturn have? 47
- 3. If you went west from San Francisco, what country would you
- reach first? Japan Pacific (Ocean)
- 4. If you go west from the United States, what ocean do you cross
- 5. Which is larger in size, Japan or Alaska? Alaska
- 6. Which has colder winter temperatures, the United States or Canada? Canada
- 7. In which direction would you go from Canada to reach the main part of the United States? South

Name \_

### A Story Items

Answer these questions about Traveler Four.

- 1. How many people are in the crew? 30
- 2. How many passengers does it hold? 200
- 3. How fast can it travel? 1 thousand miles per second
- 4. How long did the test take? 4 hours
- 5. Was Wendy sure that she had answered all the questions correctly?
- 6. Name all the Travelers that were earlier than Traveler Four. Traveler One, Traveler Two, Traveler Three
- 7. How fast could Traveler One go? 1 mile per second
- 8. The woman told the students how they would find out whether they would go on the trip. How would they find out? Idea: They would get a letter.
- 9. Write the first name of the girl who sat behind Wendy during the test. Sidney
- 10. Did that girl think she did well on the test? 10.
- 11. What did Wendy do after math class every day?

#### Idea: called home

- 12. Was Wendy selected for the trip? **YES**
- 13. What planet will she go to? Jupiter

Lesson 55

### **WORKBOOK**

#### Review Items

- 14. Name the planet we live on. Earth
- 15. What's in the middle of the solar system? Sun
- 16. Name the only part of the solar system that's burning. Sun
- 17. Which planet is largest? Jupiter
- 18. Which planet is next-largest? Saturn
- 19. How many moons does Saturn have? 47
- 20. How many moons does Jupiter have? 63
- 21. How far is it from Earth to Jupiter?
  - 400 million miles • 400 miles
- · 400 thousand miles
- 22. The picture shows half a hailstone. How many times did the stone go through a cloud? 6



GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

The mail usually came to Wendy's house about 11 each - morning. By 11:15, Wendy's math class was over, so she ran to the phone and called her home. For the last five days, she had called home at 11:15each morning. "Hi, Mom," she would say each day. She didn't have to tell her mother why she was calling. Her mother would say, "It hasn't come

"Oh," Wendy would say. Each time her mother told her that the letter hadn't come, Wendy felt glad and sad. She felt sad because she hadn't found out whether she was going on the trip. She felt a little glad because she

didn't want the letter to come if it said she wasn't going.

Then on November 19, Wendy's math teacher walked over to her desk just before the class was over. He bent over and said that there was an important message for her, and she should go to the office.

She felt so nervous that she hardly remembered leaving the classroom and going down the hall to the office. She was almost in a dream. The phone felt very heavy. She quickly moved it to her ear. "Mom," she said.

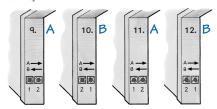
"You did it, honey," her mother said. "You're going."

# **TEXTBOOK**

- 6. How many times larger than Earth is the sun?
  - 1 hundred
- 1 thousand 10 thousand
- 7. What does an inventor get to protect an invention? patent
- 8. Special lawyers who get protection for inventions are called

#### patent attorneys

The picture shows two electric eye beams on the side of doors. The number 1 shows the beam that is broken first. The number 2 shows the beam that is broken next. Write the letter of the correct arrow for each doorway.



- 13. Which is smaller, Alaska or Japan? Japan
- 14. Is Japan a state or a country? country
- 15. How many people live in Japan?
  - 127 127 million
    - 127 thousand
- 16. How old are geese when they mate for the first time? 3 years old
- 17. After male and female geese mate, how long do they stay together? Idea: until one dies
- 18. Most geese live for about years. 30

Number your paper from 1 through 22.

Without gravity, they were weightless

1. What word means that something has no weight? weightless

2. What word names the force that pulls things back to Earth? gravity

#### **Review Items**

Skill Items

- 3. What is a person doing when the person makes an object for the first time? inventing
- 4. The person who makes an object for the first time is called an inventor
- 5. The object the person makes is called an invention

276

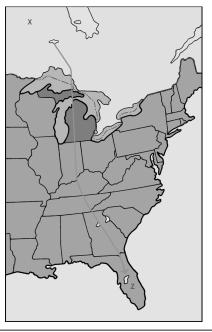
Lesson 55

Lesson 55

277

Look at the map.

- 19. Which letter shows Big Trout Lake?
- 20. Which letter shows Crooked Lake? Z
- 21. Write the name of the lake that's farther north. Big Trout Lake
- 22. What country is the X in? Canada



278 Lesson

### **WORKBOOK**

Name \_\_\_\_\_

56

A

- 1. Which letter shows where Wendy's flight began?  $\underline{G}$
- 2. Which letter shows Tokyo?
- 3. Draw a line to show the route that Wendy's jet plane took.
- 4. What's the largest city in Japan? Tokyo
- 5. In which direction did the jet fly from Canada to Tokyo? West



### Story Items

- 6. What city could Wendy see from the space station? Tokyo
- 7. What country is that city in? Japan
- 8. What country did Wendy's jet come from? Canada
- 9. What was Wendy's weight limit for her baggage?
  - 40 pounds 100 pounds
- 140 pounds
- 10. Was Wendy in good health? **YES**

© SRA/McGraw-Hill All rights reserved

ŝ

101

### **WORKBOOK**

- 11. What surprise did Wendy have at the space station? **Idea: Sidney was there.**
- 12. Was Sidney's name on the list of students who were going on the trip?
- 13. Why did Sidney get to go on the trip?

### Ideas: A student (Tim) got sick; someone couldn't go.

14. Most of the other passengers were not students. Who were they?

#### **Review Items**

15. The planets are named below with Mercury first and Venus second. Write the names of the missing planets.

Mercury, Venus, Earth, Mars\_\_\_\_\_, Jupiter,
Saturn\_\_\_\_\_, Uranus, Neptune\_\_\_\_\_, Pluto.

- 16. How many moons does Jupiter have? 63
- 17. How many moons does Saturn have? 47
- 18. How far is it from Earth to Jupiter?
  - 800 million miles
- 40 million miles
- 400 million miles
- If other people want to make copies of an invention, they have to make a deal with the inventor
- 20. What does the inventor usually make those people do? <a href="Lidea: pay">Lidea: pay</a>

GO TO PART D IN YOUR TEXTBOOK.

on 56 © SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

Number your paper from 1 through 20.

Skill Items

Here are three events that happened in the story.

Write  $\mathbf{beginning},\,\mathbf{middle},\,\mathbf{or}\;\mathbf{end}\;\mathbf{for}\;\mathbf{each}\;\mathbf{event}.$ 

- Wendy imagined how Sidney must have felt today, knowing that the other students were going on the trip.
- 2. Newspaper reporters met the students at the airport in Tokyo. beginning
- 3. The voice over the loudspeaker said, "Welcome aboard Traveler Four." end

Write the word from the box that means that same thing as the underlined part of each sentence.

concluded moaned ignore practiced glance directed divided purchase

- 4. They will  $\underline{\text{buy}}$  a new house next year. purchase
- 5. We finished our meal with apple pie. concluded
- 6. She worked on playing the piano. practiced

Use the words in the box to write complete sentences.

worried gravity weightless comfortable final equipment nervous magnetic selected

7. She a seat.

8. Without they were

- 7. She selected a comfortable seat.
- 8. Without gravity, they were weightless.

11. What runs an electric eye? electricity; current

For each picture, tell if the lights in the room are on or off. The solid arrows show people going into the room. The dotted arrows show people leaving the room.



- 17. The hottest part of the earth is called the
  - pole desert equator
- 18. What's the name of the line that goes around the fattest part of North the earth? equator Pole
- 19. What's the name of the spot that's at the top of the earth?
- 19. What's the name of the spot that's at the bottom of the earth?
  20. What's the name of the spot that's at the bottom of the earth?

Lesson 56

### **WORKBOOK**

Name \_

A Story Items

- 1. Underline  ${\bf 5}$  things that were in the cabinet in front of Wendy's seat.
  - · space books
- space helmet
- · space suit
- space food · writing table
- bed • TV screen
- plates · keyboard
- 2. Why would everybody need tanks of oxygen when they got to Jupiter? ldeas: to breathe; to survive; because there is no oxygen on Jupiter
- 3. How far back did the passengers have to move their seats before they took off? halfway (back)
- 4. What was Wendy's idea about why the ship was shaking?
  - It was speeding through layers of air.
  - It was falling apart.
  - · It was too old.
  - · It was too heavy
- 5. The pressure on Wendy felt like a **person** sitting on her chest.
- 6. In what part of the spaceship were the engines? <u>in the back/rear</u>
- 7. The sound of the engines couldn't reach the passenger section because the spaceship Idea: was traveling faster than the
- 8. What planet did Wendy see when she looked out the window? Earth

© SRA/McGraw-Hill. All rights reserved

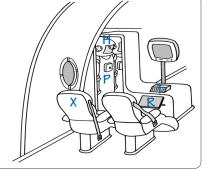
<u>sound</u>

Lesson 57

103

### **WORKBOOK**

- 9. Make an X on a passenger seat.
- 10. Make a P on the space suit.
- 11. Make an H on the space helmet.
- 12 Make a T on the computer keyboard.
- 13. Make an R on the writing table.

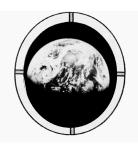


- 14. What planet is shown in the picture? Earth
- 15. Write N on the part of the planet that has night.
- 16. Write  $\mathbf{D}$  on the part of the planet that has daylight.



GO TO PART C IN YOUR TEXTBOOK.

**TEXTBOOK** 

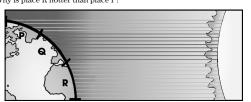


Number your paper from 1 through 20.

**Review Items** 

1. What's the largest city in Japan? Tokyo

- 2. How many heat lines are hitting place P on the map? 4
- 3. How many heat lines are hitting place R? 10
- 4. Write the letter of the place that's the hottest. R
- 5. Write the letter of the place that's the coldest.
- 6. Write the letter of the place that has the warmest winters.
- 7. Why is place R hotter than place P?



Ideas: It has more heat lines hitting it; it's closer to the equator.

287

- 8. Write the letter of the layer that went into the pile **first.** A
- 9. Write the letter of the layer that went into the pile **next.** B
- 10. Which layer went into the pile **earlier**, A or D?
- 11. Write the letter of the layer where we find the skeletons of dinosaurs.
- 12. Write the letter of the layer where we find the skeletons of horses.
- 13. Write the letter of the layer we live on.
- 14. What's the name of layer C? **Mesozoic**



- 15. How many poles are there? 2
- 16. The farther you go from the equator, the it gets.
  - colder
- fatter
- hotter

288 Lesson 57

### **TEXTBOOK**

17. At which letter would the winters be very, very cold? D
18. At which letter would the winters be very, very hot? T



- 19. The sun shines
  - some of the time
- all of the time
- 20. Can you see the sun all day long and all night long?  $\,$  10

Lesson 57

289

### **WORKBOOK**

Name .

A

- 1. Gravity is the force that Idea: pulls things down
- If something weighed 100 pounds on Earth, how many pounds would it weigh on the moon? 17 pounds
- If something weighed 20 pounds on Earth, would it weigh more than 20 pounds on Saturn?
- 4. Would it weigh more than 20 pounds on the moon? 10
- A person weighs 100 pounds on planet A and 300 pounds on planet B.
   Which planet has stronger gravity? (planet) B
- 6. A person weighs 100 pounds on planet A and 90 pounds on planet B.

  Which planet has stronger gravity? (planet) A
- Planet A has weaker gravity than planet M. On which of those planets would you weigh more? (planet) M
- 8. Which planets have stronger gravity, the **bigger** planets or the **smaller** ones? **the bigger** planets
- Story Items
- 9. Why did Earth seem to get smaller? <u>Idea: It was getting</u> <u>farther away.</u>
- 10. What makes the sky around Earth look blue?
  - a layer of air
- the sun
- a layer of clouds

© SRA/McGraw-Hill. All rights reserved.

Lesson 58 105

## **WORKBOOK**

- 11. The pilot turned off the engines when the ship was out in space. Did the spaceship slow down?
- 12. Was there any air outside the spaceship? 10
- 13. What happens to people and things when there's no gravity?
  - They drop.
- They float.
- They survive.
- 14. When the gravity device is turned on, do things float in the air or fall to the floor? fall to the floor
- 15. The gravity device is off. What would happen if you hit a **big** blob of floating liquid? **Idea: It would break into many little drops.**
- 16. Do things fall to the floor when the gravity device is off? 10
- 17. Did the gravity device come back on **fast** or **slowly? Slowly**
- 18. If you drop something on Earth, it falls to the ground. What makes it fall? gravity

#### Review Item

19. Fill in the blanks to show the four seasons.

winter, spring summer, fall, winter spring, summer fall

GO TO PART D IN YOUR TEXTBOOK.

### Number your paper from 1 through 19.

- 1. Look at planet A and planet B. Which planet has more gravity?
- 2. How do you know? Idea: It's bigger.





**Skill Items** 

She demonstrated how animals use oxygen.

- 3. What word means showed? demonstrated
- 4. What word names the part of the air you need to survive? OXYGEN

#### **Review Items** 5. tiny drops of water

- 5. What are clouds made of?
- 6. What kind of cloud does the picture show?
- 7. What happens to a drop of water at B? Idea: It freezes/becomes a hailstone.





- 8. In what part of a spaceship are the engines? back; rear
- 9. The sound of the engines can't reach the passenger section because the spaceship ldea: is going too fast

293

### TEXTBOOK

Look at the map below.

- 10. What's the name of the place shown by the letter E? North Pole
- 11. Which letter shows the coldest place?
- 12. Which letter shows the hottest place?
- 13. Which letter is farthest from the equator?



- 14. Which is bigger, Alaska or Japan? Alaska
- 15. Is Japan a state or a country? Country
- 16. How many people live in Japan?

  - 127 million
  - 127 thousand
- 17. Write the letters of 3 types of products that are used in the United States and manufactured in Japan. b,d,g

  - b. CD players
  - c. Mr. Light Saver
  - d. TVs
  - e. books
  - f. furniture
  - g. cars

### **TEXTBOOK**

18. The arrow on the map goes from San Francisco to Japan 19. Which ocean does the arrow cross? Pacific (Ocean)



### **WORKBOOK**

Name

A Story Items

1. Traveler Four had gone over 40 million miles in less than

• 1 hour • 11 hours

Answer these questions about Earth and Mars.

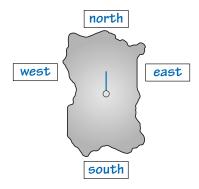
- 2. Which planet has more clouds around it? Earth
- 3. Which planet is smaller? Mars
- 4. Which planet is colder? Mars
- 5. Why is that planet colder? Idea: It is farther from the
- 6. Did Wendy sleep well during the first night on the spaceship? 110
- 7. Why did the sun seem to be getting smaller? Idea: They were getting farther away from it.
- 8. Everyone needed to do exercises so they wouldn't get Weak
- 9. Name 2 of the exercises they did. (Any 2:) sit-ups, pushups, running (in place), jumping, stretching
- 10. How did Wendy sleep the second night? Idea: well
- 11. What planet did everyone see on the next day? Jupiter
- 12. What did the pilot do to the spaceship? Idea: turned it sideways
- 13. How many moons of Jupiter could Wendy see? Z
- 14. How many moons does Jupiter have altogether? 63
- 15. Which planet has more moons, Saturn or Jupiter? Jupiter

C SRA/McGraw-Hill. All rights reserved

- Underline the 5 things that tell how Jupiter looked to Wendy.
  - It was small.
  - · It was green and blue.
  - · It was beautiful.
  - It had stripes.
- · She could see seven moons.
- It was huge.
- She could see twelve moons.
- · It was brown, orange and white.

#### Review Items

- 17. In which direction do geese migrate in the fall? South
- 18. In which direction do geese migrate in the spring? north
- Write the directions north, south, east and west in the boxes
- 20. Make a line that starts at the circle on the map and goes north.
- 21. If you start at the circle and move to the number 4, in which direction do you go? north



GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reser

### TEXTBOOK

some more and took a nan in the afternoon. When she woke up, the pilot was talking over the loudspeaker. She said, "We're going to turn the spaceship sideways so that you can see Jupiter. It is quite a sight."

Slowly, the ship turned. It continued to move in the same direction it had been moving, but it was now moving sideways. Wendy pressed close to the window. And there it was, the largest planet in

the solar system-Jupiter. It looked huge. Wendy could clearly see seven moons. She knew that there were 56 others, but she couldn't see them. The planet looked like a great striped ball, with the stripes circling the planet. Some stripes were dark brown, some were orange and some were white. For a moment, Wendy couldn't talk. She heard the other passengers saying things like, "Isn't that beautiful?" and "Incredible!"

Number your paper from 1 through 21.

Write the word from the box that means the same thing as the underlined part of each sentence.

> arithmetic kneeled device tone mentioned chuckle hesitated energy

- 1. He paused for a moment at the corner. hesitated
- 2. I think you know his mother. SUPPOSE
- 3. She quickly told about the movie. mentioned
- 4. The baby's little laugh woke me up. chuckle
- 5. They did their math homework after dinner. arithmetic

Use the words in the box to write complete sentences

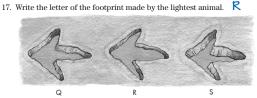


299

### **TEXTBOOK**

#### Review Items

- 8. If something weighted 100 pounds on Earth, how many pounds would it weigh on our moon?
  - 47 pounds • 10 pounds • 17 pounds
- 9. If you drop something on Earth, it falls to the ground. What makes it fall? gravity
- 10. A person weighs 300 pounds on planet R and 200 pounds on planet T. Which planet has stronger gravity?
- 11. Planet J has stronger gravity than planet K. On which of those planets would you weigh more?
- 12. How many suns are in the solar system?
- 13. How many planets are in the solar system?
- 14. Write the letter of the best deal for an inventor.
- 15. Write the letter of the best deal for a manufacturer. C
  - a. 10 thousand dollars and 3 dollars for every copy sold
  - b. 10 thousand dollars and 5 dollars for every copy sold
  - c. 10 thousand dollars and 1 dollar for every copy sold
- 16. Write the letter of the footprint made by the heaviest animal.



- 18. Which is larger, Earth or Saturn? Saturn
- more than 19. If an object weighed 20 pounds on Earth, would it weigh  ${\bf more}$ than 20 pounds or less than 20 pounds on Saturn? 20 pounds
- 20. If an object weighed 20 pounds on Earth, would it weigh more than 20 pounds on our moon? 10
- 21. Which planets have stronger gravities, the bigger planets or the smaller planets? **bigger planets**
- 300 Lesson 59

### **TEXTBOOK**





#### Number your paper from 1 through 36.

- 1. Name the planet we live on. Earth
- 2. What's in the middle of the solar system? SUN
- 3. Name the only part of the solar system that's burning.  ${\color{red}\mathsf{SU1}}$
- 4. Is Earth the planet that is closest to the sun? 100
- 5. The sun gives and to all the planets. heat, light
- 6. What's the largest city in Japan? Tokyo
- 7. The planets are named below with Mercury first and Venus second. Write the names of all the planets, including the missing planets.

Mercury, Venus, Earth, Jupiter, Uranus, Pluto. Mars, Saturn, Neptune

- 8. Which planet is largest? Jupiter
- 9. Which planet is next-largest? Saturn
- 10. How many moons does Saturn have? 47
- 11. How many moons does Jupiter have? 63
- 12. How far is it from Earth to Jupiter?
  - 40 million miles
  - 400 million miles
  - 800 million miles
- 13. How many times larger than Earth is the sun?
  - 500 • 200
  - 100
- 14. How many suns are in the solar system? 15. How many planets are in the solar system?



- 18. Which is smaller, Alaska or Japan? Japan
- 19. Is Japan a state or a country? Country
- 20. If something weighed 20 pounds on Earth, would it weigh more than 20 pounds on our moon?
- 21. Which is larger, Earth or Saturn? Saturn
- 22. If an object weighed 20 pounds on Earth, would it weigh more than than 20 pounds or less than 20 pounds on Saturn?

  20 pounds
- 23. A person weighs 100 pounds on planet A and 90 pounds on planet B. Which planet has stronger gravity?
- 24. Planet P has stronger gravity than planet R. On which of those planets would you weigh more?
- 25. Which planet has more clouds around it, Earth or Mars? Earth
- 26. Which planet is bigger? Earth
- 27. Which planet is warmer? Earth
- 28. Why is that planet warmer? Idea: It's closer to the sun.
- 302 Lesson 60

### **TEXTBOOK**

- 29. If something weighed 100 pounds on Earth, how many pounds would it weigh on our moon?
  - 57 pounds 7 pounds 17 pounds
- 30. If you drop something on Earth, it falls to the ground. What makes it fall? **gravity**

**Skill Items** 

For each item, write the underlined word or words from the sentences in the box.

Without gravity, they were weightless. She demonstrated how animals use  $\underline{\text{oxygen}}$ . She selected a comfortable seat.

- 31. What underlining tells that the seat felt pleasant? comfortable
- 32. What underlining means that something has no weight? weightless
- 33. What underlining means chose? selected
- 34. What underlining names the force that pulls things back to Earth? **gravity**
- 35. What underlining means showed? demonstrated
- 36. What underlining names the part of the air you need to survive? OXYGEN

END OF TEST 6

sson 60

303

### **WORKBOOK**

Name \_\_\_\_\_

61

#### Story Items

- 1. How much oxygen is on Io? Idea: none
- 2. What must people wear so they can breathe on Io? Ideas: space suits (with oxygen tanks); oxygen tanks
- 3. The automatic radio in the space suit tells people how to get back to the 

  space station \_\_\_\_\_ and how 

  much Oxygen; air \_\_\_\_\_ they have left.
- 4. How well did Wendy sleep on the last night? Idea: not well
- 5. Name the moon where the ship will land.
- 6. What makes it dark on the surface of Jupiter?

#### <u>ldea: Jupiter is surrounded by gas.</u>

- 7. Could you see very far on Jupiter with bright lights? 10
- 8. Do gases surround Io? 110
- 9. Does Io move around Jupiter fast or slowly? fast
- 10. It takes Io about 2 days to go all the way around Jupiter.
- 11. Where did the passengers keep their space suits? Idea: in the cabinets
- 12. The passengers tried on their space suits. Did the space suits feel **heavy** or **light?**
- 13. Would they feel that way on Io?
- 14. Tell why. Ideas: Io has less/little gravity;
  lo's gravity is weak.

### **WORKBOOK**

- 15. Why did the engines of the spaceship start up again?
  - to slow the ship down
  - to speed the ship up
  - to turn in circles
- 16. What planet is shown?

### <u>Jupiter</u>

- 17. Make an **X** on the "eye" of the planet.
- 18. Which is bigger, the "eye" or Earth? **the eye**



The planets are named below with Mercury first.
 Write the names of the missing planets.

Mercury, Yenus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto.

GO TO PART C IN YOUR TEXTBOOK.

110 Lesson 61 © SRA/McGraw-Hill. All rights reserved

Number your paper from 1 through 18.

Answer these questions about Jupiter and Io.

- Which has more gravity? Jupiter
- 2. Which is **smaller** than Earth?
- 3. Where can you jump 8 feet high?
- 4. Which has a stronger gravity, Earth or Jupiter? Jupiter
- 5. So where would you feel lighter? Earth

#### Review Items

- 6. How many moons does Saturn have? 47
- 7. How many moons does Jupiter have 63
- 8. How far is it from Earth to Jupiter?
  - 400 million miles 800 million miles
    - 40 million miles
- 9. If something weighed 40 pounds on Earth, would it weigh more than 40 pounds on our moon? 10
- 10. Which is larger, Earth or Saturn? Saturn
- 11. If an object weighed 40 pounds on Earth, would it weigh  $\mathbf{more}$ than 40 pounds or less than 40 pounds on Saturn? more than
- 12. When a gravity device is turned on, do things float in the air or fall to the floor? fall to the floor
- 13. Planet Q has stronger gravity than planet R. On which of those planets would you weigh less? Planet R
- 14. Which planets have stronger gravities, the bigger planets or the smaller planets? bigger planets
- 15. Which planet has more clouds around it, Earth or Mars? Earth
- 16. Which planet is smaller? Mars
- 17. Which planet is colder? Mars
- 18. Why is that planet colder? Idea: It's farther from the sun.

### **WORKBOOK**

Name

Story Items

1. As Traveler Four approached Io, the engines came on with great force. Tell why. Idea: to slow down the spaceship

2. Did Wendy **feel** the engines or **hear** the engines? ldea: feel them

3. Why were the passengers glad to leave the spaceship? Ideas: They wanted to get off the ship; they wanted to see lo.

4. Did Wendy feel **light** or **heavy** when she left the ship? liaht

- 5. Tell why.
  - · Io has weaker gravity.
  - Io has stronger gravity.
  - · Io has no oxygen.
- 6. Wendy jumped 5 feet high. Could she jump that high on Earth? 10
- 7. Tell about the size of Wendy's room. Ideas: very small; just enough space for a bed and chair
- 8. Name 2 things that were in the room. (Any 2:) bed, chair, closet
- 9. There were maps and lots of other things at the space station to teach visitors about Jupiter. Name 2 other things. (Any 2:) telescopes, pictures of Jupiter, books, computer games, map

111

### **WORKBOOK**

10. How big is Jupiter compared to the other planets in the solar system?

- bigger
- smaller
- · the same size
- 11. How long does it take Jupiter to spin around one time?

#### 10 hours

12. What place on Io did Wendy and Sidney want to visit?

#### a volcano; Soup Pot

- 13. How far from the space station was the volcano?
  - 30 miles
- · half a mile
- 100 meters

### Review Items

14. What planet is shown?

#### <u>Jupiter</u>

15. Which is bigger, the "eye" of the planet or Earth? the eye



GO TO PART D IN YOUR TEXTBOOK.

### TEXTBOOK

"Me, neither," Wendy said. Rod Samson told about other things that people might look at on Io. Then he pointed to a row of telescopes near the windows of the space station. "Of course, you may want to look at Jupiter. Through those telescopes you can get a closeup view of the clouds that surround the great planet. Also, we have thousands of pictures of Jupiter. And we have hundreds of books and CD-ROMs that show and tell everything

we know about the planet. If you look on the back of your map, you'll find a list of the more important facts about Jupiter. The planet is bigger than all the other planets in the solar system put together. It spins around one time every ten hours. The gases that surround it are poisonous.

When the meeting was over. Sidney said, "Let's go see the volcano."

Number your paper from 1 through 22.

Lava erupted from the volcano's crater

1. What word means coughed out or spit out? erupted

2. What word means melted rock?

3. What do we call the enormous dent at the top of a volcano? crater

#### **Review Items**

- 4. The gravity device is off. What would happen if you hit a big ldea: It blob of floating liquid? would break into many drops.
- 5. Do things fall to the floor when the gravity device is off? 10
- 6. A person weighs 100 pounds on planet A and 300 pounds on planet B. Which planet has stronger gravity?
- 7. Which planets have stronger gravities, the bigger planets or the smaller planets? bigger planets
- 8. Which has a stronger gravity, Earth or Jupiter? Jupiter
- 9. So where would you feel lighter? Earth
- 10. Could you see very far on Jupiter with bright lights? 100
- 11. Does Io move around Jupiter fast or slowly? fast
- 12. It takes Io about to go all the way around Jupiter. 2 days

- 13. When a person makes an object for the first time, the person the object. **invents**
- 14. Write the letter of the clouds that have frozen drops of water.  $\,\,$
- 15. Write the letter of the clouds that may stay in the sky for days at a time. C
- 16. Write the letter of the storm clouds.







- 17. Female animals fight in the spring to protect \_\_\_\_\_. their babies
- 18. Name 2 kinds of Alaskan animals that are dangerous in the spring. (Any 2:) polar bears, wolves, walruses
- 19. Which came earlier on Earth, dinosaurs or horses? dinosaurs
- 20. Which came earlier on Earth, strange sea animals or dinosaurs? strange sea animals
  - On planet A you can jump 10 feet high.
  - On planet B you can jump 30 feet high.
  - On planet C you can jump 5 feet high.
  - On planet D you can jump 20 feet high.
  - · On planet E you can jump 3 feet high.
- 21. Write the letter of the planet that has the most gravity.
- 22. Write the letter of the planet that has the least gravity.

### **WORKBOOK**

Name A Story Items

1. What was the temperature outside the space station?

<u>200 degrees below zero</u>

- 2. Did it feel cold to Wendy? 10
- 3. Tell why. Idea: She was wearing her space suit.
- 4. Wendy and Sidney were running and leaping when they first left the space station. The automatic radio told Wendy if she kept doing what she was doing, she would run out of oxygen in
  - 5 minutes
- 35 minutes
- · 25 minutes
- 5. Which uses up more oxygen, walking or running? running
- 6. The girls were heading toward the volcano. What marked the path? <u>(red) flaas</u>
- 7. What's another name for hot melted rock? lava
- 8. What name did the volcano have? Soup Pot
- 9. What color is lava when it's very hot? orange
- 10. What color is lava after it cools a little bit? brown
- 11. What color is lava after it's completely cooled? gray
- 12. The inside of the volcano was larger than a city block
- 13. As the girls started to walk around the rim of the volcano, the voice came over Wendy's radio again. How long would Wendy's oxygen last if she kept using it as fast as she had been using it?
  - 45 minutes
- 35 minutes
- 25 minutes

312

113

### **WORKBOOK**

- 14. What did the girls walk onto to look down into the volcano?
  - a sidewalk
- · an overhang
- a slide
- 15. What happened while they were standing on it?

Ideas: It broke: it fell.

- 16. What did Wendy grab? a rock
- 17. What happened to Sidney? Ideas: She fell.; She couldn't hold on to Wendy.

### **Review Items**

- 18. Which planet in the picture has more gravity? (Planet) D
- 19. How do you know? Idea: It is larger.





GO TO PART C IN YOUR TEXTBOOK.

### TEXTBOOK

The overhang looked scary. Wendy thought for a moment, then said, "Okay. Let's go out there."

So the girls walked onto the overhang. They walked to the end of it and looked down. They were almost above the lava. When Wendy looked down, she got a little dizzy looking at the boiling hot rock. Then suddenly, she felt the ground move. She quickly turned around and saw that the overhang was cracking off and starting to fall into the crater.

She started to run back to the rim. but it was too late. The overhang broke off with Wendy and Sidney standing on it. Wendy reached out and grabbed a rock on the edge of the rim. She felt Sidney behind her, trying to grab on to her. But Sidney could not hold on. She fell. Wendy could hear her yelling something over the radio, but Wendy couldn't turn around. She was hanging on to the rock with all her might.

Number your paper from 1 through 18.

**Skill Items** 

Use the words in the box to write complete sentences

erupted impressive demonstrated

1. She how animals use ......

2. from the volcano's

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

- 3. Wendy and Sidney started walking toward the volcano. beginning
- 4. She quickly turned around and saw that the overhang was cracking off and starting to fall into the crater. end
- 5. Within half an hour, the girls were standing on the huge rim that circled the volcano. middle
- 1. She demonstrated how animals use oxygen.
- 2. Lava erupted from the volcano's crater.

114 Lesson 63

© SRA/McGraw-Hill. All rights reserved

#### Review Items

- 6. Name the largest city in Japan. Tokyo
- 7. After Traveler Four took off, the pilot turned off the engines. Did the spaceship slow down? 10
- 8. Was there any air outside the spaceship? 10
- 9. Do gases surround Io? 10
- 10. How much oxygen surrounds Io? Idea: none
- 11. Name the largest planet in the solar system. Jupiter
- 12. How long does it take Jupiter to spin around one time? 10 hours
- 13. Which has more gravity, Jupiter or Io? Jupiter
- 14. Which is **smaller** than Earth?
- 15. Where can you jump 8 feet high?
- 16. In what season are animals most dangerous in Alaska? Spring
- 17. During what season do female animals in Alaska have babies? Spring
- 18. Write the letters of the 5 things that tell about Jupiter. a, c, d, f, h
  - a. It has stripes.
  - b. It has 15 moons.
  - c. It has more gravity than Earth.
  - d. It's brown, orange and white.
  - e. It's small.
  - f. It's huge.
  - g. It's green and blue.
  - h. It's beautiful.

WORKBOOK

Name

### Story Items

- 1. After the overhang fell, Wendy pulled herself up onto the rim of the volcano. Was this hard or easy? 625Y
- 2. Tell why.
  - The gravity was weak.
  - · There wasn't any oxygen.
  - · She was in a space suit.
- 3. Was Sidney in the lava? 10
- 4. How close were Sidney's feet to the lava?

### Idea: a couple of meters

5. Where did Wendy go to get help for Sidney?

#### space station

- 6. On the way to get help, the automatic voice came over Wendy's radio.
  - · She was using up oxygen too fast.
  - · She was not running fast enough.
  - · Her space suit was getting too hot.
- 7. Whose voice came over Wendy's radio next? Rod's/Rod Samson's
- 8. What did he tell her to do? Ideas: stop; sit down; rest; take
- 9. Wendy ran out of oxygen. **Underline 3** things that happened to Wendy. etc.
  - · Her arms became stiff.
  - Her arms became tingly.
- · She saw Rod.
- Her voice wouldn't work
  - · She saw spots.
- 10. About how far from the space station was Wendy when she passed out?
  - · 200 centimeters
- 10 yards
- 200 meters

· Her voice was loud.

115

- 11. Where was Wendy when she woke up? Idea: inside a vehicle
- 12. How many people were in the vehicle with Wendy? 3
- 13. Who was driving? Rod (Samson)
- 14. What did the woman attach to Wendy's space suit? (fresh) oxygen tanks
- 15. Where did the vehicle stop? Ideas: on the rim of Soup Pot;

#### Review Items

**WORKBOOK** 

#### near where the overhang had been

Here's the rule about an electric eye: Each time the beam of light is broken, the light changes.

16. The light is off. The beam is broken 4 times. Shade the bulbs that are off.



- 17. Is the light **on** or **off** at the end? **off**
- 18. The light is off. The beam is broken 3 times. Shade the bulbs that are off.



- Is the light on or off at the end? Off.
- 20. The light is off. The beam is broken 6 times. Shade the bulbs that are off.



21. Is the light **on** or **off** at the end? **off** 

GO TO PART C IN YOUR TEXTBOOK.

317

Lesson 63

### TEXTBOOK

surface of Io. Wendy's helmet was off. There was air inside the vehicle. Rod Samson was driving the vehicle. Another man was sitting next to him. A woman was in back with Wendy. The woman was attaching fresh oxygen tanks to Wendy's space suit.

Wendy tried to sit up, but the woman gently pushed her back down. The woman said, "Take it easy. We'll be up at the top of Soup Pot in just a minute."

"You've got to get there fast," Wendy said. "Sidney is just hanging on She's

"We're going as fast as we can," the woman said. "Everything is going to be all right."

Wendy looked at the woman's face. The woman looked worried.

The woman said, "I'll put your helmet back on. You have fresh tanks of oxygen now."

Rod said to the woman, "Fasten her helmet. We're almost there. The woman helped Wendy put on

the helmet. The vehicle stopped. Wendy looked outside. The vehicle had stopped on the rim of Soup Pot, right near the place where the overhang had been.

# Number your paper from 1 through 19.

1. Which planet is largest? Jupiter

- 2. Which planet is next-largest? Saturn
- 3. How many times larger than Earth is the sun? 100 4. Write the names of the 9 planets, starting with Mercury.
- 5. If something weighed 100 pounds on Earth, how many pounds
- would it weigh on our moon?
  - 25 pounds 100 pounds 17 pounds
- 6. If something weighed 50 pounds on Earth, would it weigh more than 50 pounds on our moon? 10
- 7. Which is larger, Earth or Jupiter? Jupiter
- 8. If an object weighed 50 pounds on Earth, would it weigh more more than than 50 pounds or less than 50 pounds on Jupiter? 50 pounds
- 9. If you drop something on Earth, it falls to the ground. What 9. gravity makes it fall? 4. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

- 10. What color is lava when it's very hot?
  - gray orange brown
- 11. What color is lava after it cools a little bit?
  - gray orange bro
- 12. What color is lava after it's completely cooled? • gray • orange • brown
- Use these names to answer the questions:

  Tyrannosaurus, Triceratops.

  13. What is animal A? Triceratops

  14. What is animal B? Tyrannosaurus

  A
- 15. The men who invented the first airplane saw a need. What need? Idea: to get to places faster
- 16. Captain Parker's ship passed through a place where hundreds of ships have sunk or been lost. Name that place. Bermuda Triangle
- 17. Name 2 things that can make an ice chunk drift. wind and currents
- 18. Which globe shows how the earth looks on the first day of winter?
- 19. Which globe shows how the earth looks on the first day of summer?







esson 64

### **WORKBOOK**

Name \_

### A Story Items

- What was Sidney hanging on to when Wendy left for help?
   a rock
- 2. Where was Sidney when Wendy came back?

<u>ldea: in a cave</u>

- 3. What did Wendy think had happened to Sidney?

  Idea: that she had fallen into the lava
- 4. What happened to the end of the rope that fell into the lava? **Idea: It burned.**
- 5. Who slid down the rope? Rod (Samson)
- 6. What did he tell Sidney to do? Ideas: climb onto his back; put her arm around his neck; hang on
- 7. When Sidney reached the top of the rim, how did she look?
  - healthy
- pale
- 8. Why could everybody take their helmets off inside the space station? **Idea:** because it has oxygen
- 9. **Underline 2** words that tell how Sidney felt at the end of the story.
  - thirstv
- tired
- cold
- glad

#### **Review Items**

- 10. How many moons does Jupiter have? 63
- 11. Which planet has more moons, Saturn or Jupiter? Jupiter
- 12. How much oxygen surrounds Io? Idea: none
- 13. Does Io move around Jupiter fast or slowly? fast

© SRA/McGraw-Hill. All rights reserved.

Lesson 65

117

### **WORKBOOK**

14. It takes Io about 2 days

\_\_\_\_\_ to go all the way around Jupiter.

15. Which planet in the picture has more gravity? (Planet) G

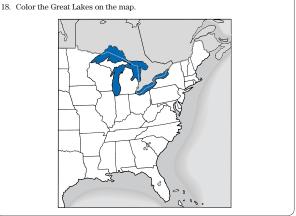
16. How do you know? Idea: It's larger.







17. How many Great Lakes are there? five (5)



GO TO PART C IN YOUR TEXTBOOK.

118

Lasson 65

### **TEXTBOOK**

Everybody got into the vehicle. The vehicle moved slowly down the side of the volcano and along the row of flags back to the space station. A door opened in the space station and the vehicle went inside. The door closed behind the vehicle.

The woman helped Sidney from the vehicle. Then the others got out. They walked through a door to the meeting place in the space station. When they were inside, they took off their helmets. The woman helped Sidney to one of the chairs. Sidney slumped into the chair.

"I don't feel scared anymore," Sidney said. Then she added, "But am I ever tired. I feel as if I've been working for a hundred years."

Wendy said, "When we came back to the volcano and didn't see you, I thought I was going to die. I thought you had fallen into that lava."

"I was close," Sidney said. "I was hanging on to that rock. Then after a while I got one foot into a little crack in the rocks and I pushed up. I climbed into that cave."

"I'm glad," Wendy said. Rod handed Sidney a cup of tea. "Sip this," he said. "Watch out. It's hot."

Sidney sipped the tea, looked up, and smiled. Then she said, "Oh, am I glad to be back here."

# Number your paper from 1 through 19.

- 1. What planet is shown in the picture? Jupiter
- 2. Which is bigger, the "eye" of the planet or Earth? the eye



© SRA/McGraw-Hill. All rights reserved

- 3. Which uses up more oxygen, jumping or sitting? jumping
- 4. What's another name for hot, melted rock?
- Write the names of the 9 planets, starting with the planet that's closest to the sun.

Write the name of each numbered object in the picture. Choose from these names:

- kayak
- spear
- Eskimo
- fishing pole
- sled
- sled dogs



- 5. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto
- 6. sled dogs
- 7. sled
- 8. fishing pole
- 9. spear
- 10. Eskimo
- 11. kayak

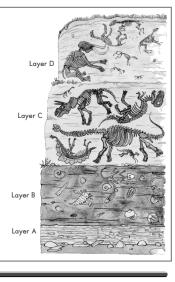
esson 65

325

66

### **TEXTBOOK**

- 12. Write the letter of the layer that went into the pile **first.** A
- 13. Write the letter of the layer that went into the pile **next**.
- 14. Write the letter of the layer that went into the pile last.
- 15. Which layer went into the pile **earlier**, A or B?
- 16. Which layer went into the pile **earlier**, C or B?
- 17. Write the letter of the layer we live on.



#### **Study Items**

Today's story told about a vehicle that goes on the surface of Io. No people have gone to Io yet. But people have gone from Earth to the moon. They have taken a vehicle with them. See if you can find out some facts about that vehicle.

18. Find out what makes it run. Ideas: electricity; battery

19. Find out the name of the vehicle. Ideas: lunar roving vehicle; Lunar Rover; etc.

326 Lesson 65

### **WORKBOOK**

Name.

### Story Items

- 1. How long did the students stay on Io? 5 days
- 2. Name 3 things Wendy did after her adventure at Soup Pot.
  - Idea: studied rocks;
  - o took a (200-mile) trip to see volcanos:
  - e took (over 200) pictures
- 3. When it was time to go back home to Earth, Wendy felt both happy and sad.

  She felt happy because she would see ldea: friends and family.
- 4. She felt sad because she would have to say goodbye to

#### Ideas: her new friends; Rod; lo

5. Wendy took lots of pictures of the things she saw. Which pictures did Wendy want more than all the rest?

#### Idea: pictures of Soup Pot

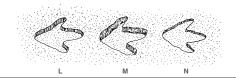
- 6. How far away were the big volcanos the girls visited?
  - 200 miles
- 100 miles
- 1 mile
- 7. Name 2 ways these volcanoes were different from Soup Pot.
- (any 2 ideas:) they were bigger; they were much
- e farther from the station; one was erupting.
- 8. Name 2 things Wendy planned to do when she got back to her home town.
  - (any 2 ideas:) visit her friends; visit her family;
  - show them her pictures; tell about her adventure

**WORKBOOK** 

- 9. What time of day was it when Traveler Four landed in Japan?
- 10. Did Wendy and Sidney get on the same plane?
- 11. The woman sitting next to Wendy on the plane was reading a book. What was it about? Idea: solar system
- $12. \ \,$  The woman asked about a place that made Wendy laugh. What place was that?
  - Jupiter
- Io
- Saturn

#### Review Items

- 13. Write the letter of the footprint made by the heaviest animal.  $\underline{\mathsf{M}}$
- Write the letter of the footprint made by the lightest animal.



GO TO PART C IN YOUR TEXTBOOK.

McGraw-Hill. All rights reserved. Lesson 66

120 Lesson 66 © SRA/McGraw-Hill. All rights reserved

Number your paper from 1 through 23.

The incredible whales made them anxious.

- 1. What word names warm-blooded animals that look like fish? whales
- 2. What word means nervous or scared? anxious
- 3. What word means amazing? incredible

#### **Review Items**

- 4. If you drop something on Earth, it falls to the ground. What makes it fall? gravity
- 5. A person weighs 200 pounds on planet X and 100 pounds on planet Y. Which planet has stronger gravity?
- 6. Planet P has stronger gravity than planet R. On which of those planets would you weigh more?
- 7. Which planet has fewer clouds around it, Earth or Mars? Mars
- 8. Which planet is bigger? Earth
- 9. Which planet is colder? Mars
- 10. Why is that planet colder? Idea: It's farther from the sun.
- 11. Which has more gravity, Jupiter or Io? Jupiter
- 12. Which is **smaller** than Earth?
- 13. Where can you jump 8 feet high?
- 14. Write the names of the 9 planets, starting with the planet that's
- 15. What is a person doing when the person makes an object for the first time? inventing
- 16. The person who makes an object for the first time is called an inventor
- 17. The object the person makes is called an ...... invention
- 14. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

### TEXTBOOK

### 3 (years old)

- 18. How old are geese when they mate for the first time?
- 19. After male and female geese mate, how long do they stay together? Idea: until one goose dies
- 20. Most geese live for about years. 30
- 22. Where are most wild geese born? Canada
- 23. The sare the coldest places on the earth and the the hottest place on the earth. pole, equator

END OF LESSON 66 INDEPENDENT WORK

### SPECIAL PROJECT

Make a wall chart that shows these planets: Mercury, Venus, Earth, Mars, Jupiter.

For each planet, find the answers to these questions:

- . How big is the planet?
- How many hours does it take to turn around? (How long is a day on that planet?)
- · How long does it take to circle the sun?
- · How many moons does it have?
- · How far from the sun is it?

Lesson 66/Special Project

331

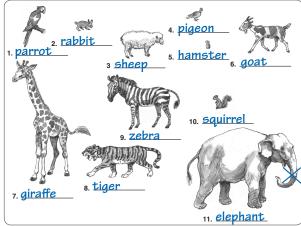
### **WORKBOOK**

Name



Here are animal names in alphabetical order. Label each animal in the picture below

bear	giraffe	lion	sheep
cow	goat	parrot	squirrel
eagle	hamster	pigeon	tiger
elephant	horse	rabbit	zebra



12. Make an X on the elephant's trunk.

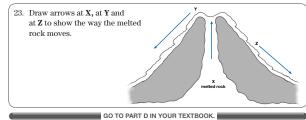
**WORKBOOK** 

### Story Items

- 13. How old was Waldo when he started cooking? 10 (years old)
- 14. Did people like Waldo's cooking? 10
- 15. Who like Waldo's cooking? Idea: animals
- 16. When the circus animals gathered in Waldo's yard, the weather was Warm and the windows were open
- 17. How did Waldo's family feel about having so many animals in the yard? Idea: They didn't like it. Idea: some
- 18. What did Waldo use to get the animals back into the truck? of his food
- 19. Which animals did Waldo feed in the truck—the circus animals or the other animals? the circus animals
- 20. What did Waldo do after the other animals followed him out of the truck? Idea: He fed them.
- 21. Did the animals need to eat a lot of Waldo's food to make them happy?
- 22. When the trainers saw how Waldo handled the animals, they were

amazed

### Review Item



Lesson 67 SRA/McGraw-Hill. All rights rese

121

## Number your paper from I through 16.

Use the words in the box to write complete sentences

whales vehicle lava pale numb anxious incredible crater erupted 1. Iava, erupted, crater 2. The made them incredible, whales, anxious

#### Review Items

- 3. Write the letters of  ${\bf 3}$  types of products that are used in the United States and manufactured in Japan. C, e, g
  - a. rugs b. Mr. Light Saver
- e. TVs f. books
- c. CD players d. furniture
- g. cars
- 4. Which planet has more clouds around it, Earth or Mars? Earth 5. Which planet is bigger? Earth
- 6. Which planet is hotter? Earth
- 7. Why is that planet hotter? Idea: It's closer to the sun.
- 8. Which has more gravity, Jupiter or Io? Jupiter
- 9. Which is smaller than Earth?
- 10. Where can you jump 8 feet high?
- 11. Which has a stronger gravity, Earth or Jupiter? Jupiter
- 12. So where would you feel lighter? Earth
- 13. Does Io move around Jupiter fast or slowly? fast
- 14. It takes Io about to go all the way around Jupiter. 2 days
- 15. How long does it take Jupiter to spin around one time? 10 hours
- 16. Which uses up more oxygen, sitting or jumping? jumping

### **WORKBOOK**

Name

A Story Items

- 1. Why did people stay in Waldo's yard after the circus animals left? Ideas: because more animals were gathering; to watch the animals; to see what happened
- 2. Why couldn't those people see Waldo's legs? Idea: because there were so many animals around him
- 3. How did those people **feel** about the show the animals were putting on? Idea: They liked it.
- 4. Why did people from all over make phone calls to Waldo's house? Idea: to see if their animals were there
- 5. Waldo's sister thought it was ridiculous when somebody asked her if she'd seen a striped cat. Why did she think it was ridiculous? Idea: because she'd seen so many striped cats
- 6. Waldo came up with a solution to solve a problem with his cooking. What was his solution? Idea: to earn money to pay for the food
- 7. Did his parents agree with his solution? 10
- 8. What decision did Waldo's parents make?

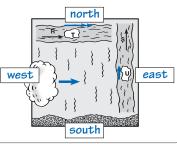
Idea: that Waldo should stop cooking

123

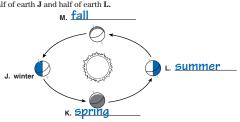
### **WORKBOOK**

#### Review Items

- 9. Write north, south, east and west in the correct boxes
- 10. In which direction is ocean current R moving? east
- 11. In which direction is ocean current S moving? north
- 12. Which direction is the wind coming from? West
- 13. Make an arrow above ice chunk  ${\bf T}$  to show the direction the current will move the ice chunk.
- 14. Make an arrow next to ice chunk U to show the direction the current will move the ice chunk.



- 15. Write the missing seasons on the picture below.
- 16. Shade half of earth J and half of earth L.



GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill All rights reserved

### TEXTBOOK

"Yes, Dad," Waldo said. "Make him stop cooking," his sister said. "Make him stop."

His brother said, "Yeah, make him stop. Or make him answer all the phone calls."

"That's enough from you two," Waldo's mother said. She continued. "Waldo is a good boy. We just have to figure out some way to solve this problem."

His sister said, "I know how to solve the problem. We could make Waldo

"Go into the other room," Waldo's mother said. Then his mother added. "We'll work out a solution to this problem.

So Waldo, his mother, and his father sat in the kitchen and talked about the problem. There were still many animals outside. Two big dogs were standing on their hind legs, looking through the kitchen window. One of them kept howling. The phone was ringing in the other room. Every now and then, one of the neighbors would yell something like, "Get out of here. Go home.

After Waldo and his parents talked for a while, Waldo's father said. "I don't see any solution except one. You're going to have to stop cooking."

Waldo's mother said. "I'm afraid that's right. It costs a lot of money to cook all that food. Then nobody can eat it except those animals."

Waldo said, "But I'll pay for the food. I'll get a job and make enough to pay for my own food. And I'll.

"I'm sorry, son," his father said. "I think you'll just have to stop cooking.'

Number your paper from 1 through 22.

**Skill Items** 

Here are three events that happened in the story. Write beginning, middle or end for each event.

- 1. After Waldo and his parents talked for a while, Waldo's father said, "I don't see any solution except one."
- 2. Most of those people remained in the yard after the circus truck left with the circus animals. beginning
- 3. Waldo walked up the back steps of his house and the crowd of animals followed him. **middle**

# 18. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto Review Items

- 4. Which is bigger, Alaska or Japan? Alaska
- 5. Is Japan a state or a country? Country
- 6. How many people live in Japan?

  - 127 127 million • 127 thousand
- 7. Do gases surround Io? 10
- 8. How much oxygen is on Io? none
- 9. What color is lava when it's very hot?
  - orange brown gray
- 10. What color is lava after it cools a little bit?
- 11. What color is lava after it's completely cooled? gray
  - $\bullet\,$  On planet P you can jump 4 feet high.
  - On planet L you can jump 15 feet high.
  - $\bullet\,$  On planet J you can jump 7 feet high.
  - On planet M you can jump 10 feet high.
- · On planet Z you can jump 20 feet high. 12. Write the letter of the planet that has the most gravity.
- 13. Write the letter of the planet that has the least gravity.
- 14. How many moons does Jupiter have? 63
- 15. How many moons does Saturn have? 47
- 16. Which planet has more moons, Saturn or Jupiter? Jupiter
- 17. How far is it from Earth to Jupiter? 400 million miles
- 18. Write the names of the 9 planets, starting with Mercury.
- 19. Is Earth the planet that is closest to the sun? 10
- 20. The sun gives and to all the planets. heat, light
- 21. Which planet in the picture has more gravity?
- ldea: It is larger 22. How do you know?





### **WORKBOOK**

Name



- 1. When you're training an animal, what do you do each time the animal does the trick? Idea: Reward the animal.
- 2. What do you do if the animal does not do the trick? Idea: Don't reward the animal.
- 3. Name 2 things you could give to a dog to reward it.
  - (Any 2:) a bone, a dog treat, a pat on the
  - o head, etc.

#### Story Items

- 4. Waldo's plan had two parts. First, Waldo was going to get a job
- 5. Then he was going to fix up the **garage**
- 6. What was the first job that Waldo got? <u>delivering newspapers</u>
- 7. Why didn't he like that job? ldea: because he had to aet up so early
- 8. What was the second job that Waldo got? Ideas: dusting boxes; working in a shoe store
- 9. Why didn't he like that job? Idea: because he hated dustina boxes
- 10. What will Waldo do to make the animals in the pet shop happy? <u>ldea: give them some of his food</u>

### **WORKBOOK**

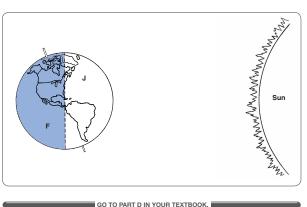
11. While Waldo was cooking, the pet shop owner opened a window. Why did she do that?

#### ldea: because Waldo's food smelled so bad

12. Why did Waldo tell her to close the window? Idea: because animals would come in through the window

#### **Review Items**

- 13. Shade the part of the earth where it is nighttime.
- 14. Which side of the earth is closer to the sun, **J** or **F?**
- 15. Which side of the earth is in nighttime?
- 16. Which side of the earth is in daytime?



Laccon 69 © SBA/McGraw-Hill All rights reserved

## **TEXTBOOK**

"Close the window," Waldo said, "or they'll come inside."

"I've never seen anything like this," the owner said.

The animals inside the net shon were starting to howl and screech and run around in circles and jump up and down. The owner of the pet shop said, "My, my. I've never seen anything like this in my whole life."

Waldo smiled and said. "Just wait and see what they do when I bring the food out to them."

Number your paper from 1 through 19.

The boring speaker disturbed the audience.

1. What's another word for bothered? disturbed

- 2. What word is the opposite of interesting? boring
- 3. What do we call all the people who watch an event? audience

#### Review Items

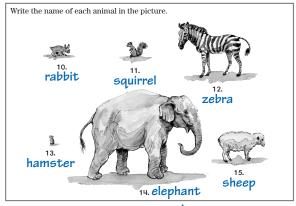
- 4. The map shows a route. What state is at the north end of the route? Alaska
- 5. What country is at the south end of the route? Canada
- 6. About how many miles is the route? 2500 (miles)



### 7. tiny drops of water

- 7. What are clouds made of?
- 8. What kind of cloud does the picture show? **storm clouds**
- 9. What happens to a drop of water at **B?** Idea: It freezes.





- 16. What's another name for hot, melted rock?
- 17. When days get longer, is the North Pole tilting toward the sun or away from the sun? toward the sun
- 18. When days get shorter, is the North Pole tilting toward the sun or away from the sun? away from the sun
- 19. In April, the sun shines for more than hours each day in Alaska. 12

Lesson 69 345

#### **TEXTBOOK**

70

TEST 7

#### Number your paper from 1 through 36.

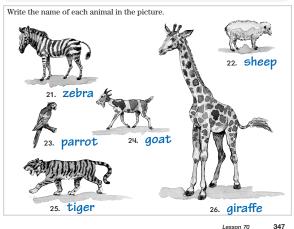
- 1. Which has more gravity, Jupiter or Io? Jupiter
- 2. Which is smaller than Earth?
- 3. Where can you jump 8 feet high?
- 4. Which has stronger gravity, Earth or Jupiter? Jupiter
- 5. So where would you feel heavier? Jupiter
- 6. Do gases surround Io? 10
- 7. How much oxygen is on Io? none
- 8. Does Io move around Jupiter fast or slowly? fast
- 9. It takes Io about to go all the way around Jupiter. 2 days
- 10. What planet is shown in the picture? **Jupiter**
- 11. Which is bigger, the "eye" of the planet or Earth? **the eye**



- 12. Write the letter of the  $\bf 5$  things that tell about Jupiter.  $\bf b, d, e, f, h$ 
  - a. It's small.
  - b. It's brown, orange and white.
  - c. It has 7 moons.
  - d. It has more gravity than Earth.
  - e. It has stripes.
  - f. It's huge.
  - g. It's green and blue.
  - h. It's beautiful.
- 46 Lesson

### **TEXTBOOK**

- On planet F you can jump 5 feet high.
- $\bullet\,$  On planet T you can jump 30 feet high.
- On planet K you can jump 8 feet high.
- On planet B you can jump 15 feet high.
  On planet R you can jump 6 feet high.
- 13. Write the letter of the planet that has the most gravity.
- 14. Write the letter of the planet that has the least gravity.  $\mathsf{T}$
- 15. How long does it take Jupiter to spin around one time? 10 hours
- 16. Which uses up more oxygen, reading or hopping? hopping
- 17. What's another name for hot, melted rock?
- 18. What color is lava when it's very hot?
  - brown orange gra
- 19. What color is lava after it cools a little bit?
- 20. What color is lava after it's completely cooled? **gray**



#### **TEXTBOOK**

- 27. When you're training an animal, what do you do each time the animal does the trick? Idea: Reward the animal
- 28. What do you do if the animal does not do the trick?
- 28. What do you do if the animal does not do the trice.
  29. Name 2 things you could give a dog to reward it.

Claill Itama

For each item, write the underlined word from the sentences in the box.

Lava erupted from the volcano's crater.

The incredible whales made them anxious.

The boring speaker disturbed the audience.

- 30. What underlining means **melted rock?**
- 31. What underlining means amazing? incredible
- 32. What underlining names warm-blooded animals that look like fish? whales
- 33. What word is the opposite of interesting? boring
- 34. What underlining means coughed out or spit out? erupted
- 35. What underlining means nervous or scared? anxious
- 36. What's another word for bothered? disturbed
- 28. Idea: Don't reward the animal
- 29. (Any 2:) a bone, a dog treat, a pat on the head, etc.

348 Le

Name



- 1. When you teach an animal a simple trick, when do you reward the animal? <u>ldea: when the animal does the trick</u>
- 2. When don't you reward the animal? Idea: when the animal doesn't do the trick
- 3. Let's say that you want to teach an animal a very hard trick. Can the animal do the trick at first? 10
- 4. What will happen if the animal doesn't receive any rewards until it does the trick? Idea: The animal will stop trying to do the trick.
- 5. When you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence

- jumping up and turning upside down
- · jumping up in the air
- · jumping up and leaning backward
- 6. At first you would reward the dog for jumping up in the air
- 7. Later you would reward the dog for **jumping up and** <u>leaning backward</u>
- 8. Later you would reward the dog for jumping up and turning upside down

**WORKBOOK** 

- Story Items
- 9. What's the name of the pet shop owner? Maria (Sanchez)
- 10. Why wasn't the pet shop making money? Ideas: because people weren't buying/didn't like pets; it wasn't interesting.
- 11. When Waldo let the cats out of their cages, what did Maria think the cats would do? Idea: chase the birds
- 12. Did the cats do that? 10
- 13. What did they do? (Any 2:) rubbed against Waldo's legs; meowed; purred loudly; put their tails high in the air
- 14. After Waldo let all the animals out of their cages, where did he sit down? Idea: He sat in the front window of the pet shop.
- 15. Which animals did he feed first? birds
- 16. What was happening outside the pet shop window? Idea: A crowd was gathering.

GO TO PART D IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved © SRA/McGraw-Hill. All rights reserved

#### TEXTBOOK

four or five people standing in front of the window. But soon there was a large crowd of more than thirty people

Waldo was now feeding the animals. He held a little bit of food high in the air. The birds flew from his shoulders and his head. They flew around and took the food from his hand. Maria watched. The other animals watched. The people outside the window watched. The birds went back to Waldo's shoulders and head. Then Waldo fed the dogs and cats and rabbits and hamsters and all the other animals. The people outside were laughing and pointing.

Number your paper from 1 through 21.

Use the words in the box to write complete sentences.

deserved	boring	adult	anxious	aimed	
audience	incredible	fancy	disturbed	whales	
1. The speak	made them er the			hales, anxiou ırbed, audien	

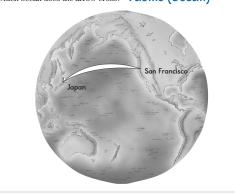
#### **Review Items**

- 3. What runs an electric eye? electricity; current
- 4. Which planet is largest? Jupiter
- 5. Which planet is the next largest? Saturn
- 6. How many times larger than the earth is the sun? 100
- 7. How many suns are in the solar system?
- 8. How many planets are in the solar system?
- 9. What's the largest city in Japan? Tokyo
- 10. When you're training an animal, what do you do each time the animal does the trick? Idea: give the animal a reward
- 11. What do you do if the animal does not do the trick? Idea: don't give the animal a reward

Lesson 71

### **TEXTBOOK**

- 12. Gravity is the force that ............................... Idea: pulls things down
- 13. What happens to people and things when there's no gravity?
- 14. If something weighed 100 pounds on Earth, how many pounds would it weigh on our moon? 17 pounds
- 15. The pilot of Traveler Four turned off the engines when the spaceship was out in space. Did the ship slow down? 100
- 16. If you drop an object on Earth, it falls to the ground. What makes it fall? gravity
- 17. The arrow on the map goes from San Francisco to Japan. Japan 18. Which ocean does the arrow cross? Pacific (Ocean)



19. What planet is shown in the picture? Jupiter

20. Which is bigger, the "eye" of the planet or Earth? the eye



- 21. Write the letters of the 5 things that tell about Jupiter. b, d, e, f, h
  - a. It's small.
  - b. It's beautiful.
  - c. It has 4 moons.
  - d. It's huge.e. It has stripes.
  - f. It has more gravity than Earth.
  - g. It's green and blue.
  - h. It's brown, orange and white.

Lesson 71

'

### **WORKBOOK**

Name \_\_\_\_\_

A Story Items

- 1. How many pets did Maria usually sell in a week? **2**
- 2. How many did she sell on the day that Waldo cooked? 17
- 3. Why did she sell so many more pets when Waldo cooked?

  Idea: because the animals looked so cute
- 4. Maria said that she would give Waldo some money for every dollar she makes by selling pets. How much money? <u>20 cents</u>
- 5. How did Waldo feel about that deal? Idea: He loved it.
- 6. When Waldo got home, he was out of breath. Tell why. **Idea:** because he ran home
- 7. Why was he late? Ideas: because he'd been at the pet shop; he was talking to Maria.
- 8. Waldo changed his plans about cooking in the garage. Where will he cook? ldea: at the pet shop
- 9. Did his parents like that idea? **Yes**
- 10. Did Waldo know a lot about training animals? 100
- 11. How will he learn about training animals? Idea: He will get books.
- 12. What will he use as a reward when he trains animals? <a href="Model2">Idea: his</a> food

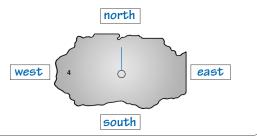
© SRA/McGraw-Hill. All rights reserved

Lesson 72

## WORKBOOK

#### Review Items

- 13. In which direction do geese migrate in the fall? **50uth**
- 14. In which direction do geese migrate in the spring? north
- Write the directions north, south, east and west in the boxes.
- 16. Make a line that starts at the circle on the map and goes north.
- If you start at the circle and move to the number 4, in which direction do you go? West



18. Fill in the blanks to show the four seasons.

winter, spring summer, fall, winter spring, summer , fall

GO TO PART C IN YOUR TEXTBOOK.

#### **TEXTBOOK**

Waldo started to get angry. "Tm a good cook," he said. "I can't help it if the only people who like my food are not people."

Waldo's sister laughed and said, "Oh, that makes a <u>lot</u> of sense. The only people are not people. Make him stop cooking."

Waldo's father said to Fran, "Just be quiet and give Waldo a chance to tell us about his job."

Waldo explained, "I'll cook at the pet shop and I'll make a lot of money. The owner of the pet shop told me that she would give me 20¢ for every dollar that she made from selling a pet. I'll be rich."

"Yeah," his brother said. "But how are people going to buy pets if they're holding their noses all the time?"

"Be quiet," Waldo's mother said.
"I think Waldo deserves a chance to cook again if he cooks at the pet shop."

Waldo said, "There's a kitchen in the back of the pet shop and I can cook everything I need there. And I did it today." Waldo went on to explain how he had cooked the food, let the animals out of their cages, and sat in the window with them. "The pet shop was mobbed," he concluded. "And people were buying pets like crazy."

"I think that's very nice," his mother said.

"I think it stinks," his sister said.
"You should make him..."

"That's enough," Waldo's father said.

Waldo said, "I think I'm going to start training some of the animals to do tricks. I don't know much about training animals, but I'll get some books and read them. I know that the animals will do anything to get my food. So I'll use the food as a reward. And I think I can train the animals to do some really good tricks"

Waldo's father said, "As long as you don't cook around the house, I think your plan sounds very good. You may work in the pet shop."

Number your paper from 1 through 18.
Review Items

- 1. Name the planet we live on. Earth
- 2. What's in the middle of the solar system? the sun
- 3. Name the only part of the solar system that's burning. the sun

10 Lesson 72

4 Lesson 7

© SRA/McGraw-Hill. All rights reserved.

### 4. Ideas: the back; the tail; behind the passenger section

- 4. In what part of a spaceship are the engines?
- 5. The sound of the engines can't reach the passenger section ldeas: moves because the spaceship faster than the (speed of) sound
- 6. If an object weighed 20 pounds on Earth, would it weigh more than 20 pounds on our moon? 10
- 7. Which is larger, Earth or Saturn? Saturn
- 8. If an object weighed 20 pounds on Earth, would it weigh more more than than 20 pounds or less than 20 pounds on Saturn? 20 pounds
- 9. A person weighs 100 pounds on Planet A and 300 pounds on Planet B. Which planet has stronger gravity?
- 10. Planet A has stronger gravity than Planet R. On which of those planets would you weigh more?
- 11. When you teach an animal a simple trick, when do you reward the animal? Idea: when the animal does the trick
- 12. When don't you reward the animal? Idea: when the animal doesn't do the trick
- 13. Let's say that you want to teach an animal a very hard trick. Can the animal do the trick at first? 10
- 14. What will happen if the animal doesn't receive any rewards until it does the trick? Idea: It will stop trying to do the trick.
- 15. So when you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence.

- · jumping up and leaning backward
- · jumping up in the air
- · jumping up and turning upside down
- 16. At first, you would reward the dog for \_\_\_\_\_\_ jumping up in the air
- 17. Later you would reward the dog for
- 18. Later you would reward the dog for jumping up and leaning backward

#### 18. jumping up and turning upside down

### **WORKBOOK**

73 Name 10. Ideas: She wanted to keep them for advertising; so people could see them; to train more pigeons

1. Where did Waldo get books about training animals? from the library

- 2. What kind of animals are the easiest to teach? birds
- 3. What did Waldo train three pigeons to do? tap dance
- 4. How long did it take the first pigeon to learn that trick? half an hour
- 5. Did it take **more time** or **less time** to train the second pigeon?
- 6. What did Waldo attach to the pigeon's feet? buttons
- 7. Why did he do that? Idea: so they'd make tapping sounds
- 8. Where did Waldo put the pigeons after he finished training them? Idea: in the front of the pet shop
- 9. Why did he do that? Ideas: to show them off; so a crowd
- 10. Maria didn't sell the first three pigeons that Waldo trained. Why not? gather
- How many dancing pigeons did people order the first day?
- 12. Waldo trained a rabbit to walk on a tightrope. Where did he put the ropes at first? on a table
- 13. What kind of ropes were they? thick
- 14. When Waldo put the ropes a few centimeters above the table, he did something so the rabbit wouldn't fall. What did he do? Idea: He put a belt around the rabbit.
- 15. What did Waldo do to make a super trick? Idea: trained some mice to sit on the rabbit's back

### **WORKBOOK**

#### Review Items

- 16. How many Great Lakes are there? five (5)
- 17. Color the Great Lakes on the map



Here's the rule about an electric eye: Each time the beam of light is broken, the light changes.

- 18. The light is off. The beam is broken 5 times. Is the light **on** or **off** at the end?
- 19. The light is off. The beam is broken 7 times. Is the light **on** or **off** at the end?
- 20. The light is off. The beam is broken 2 times. Is the light on or off at the end?

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

Number your paper from 1 through 16.

Skill Items

A lot of folks mobbed around the cute singer.

- 1. What's another word for good-looking and charming? Cute
- 2. What's another word for people? folks
- 3. What's another word for **crowded around? mobbed**

#### Review Items

- 4. How long ago did dinosaurs live on the earth?
  - · a hundred years ago
  - · a hundred million years ago
  - a million years ago
- $5.\ \mbox{Here's}$  how an electric eye at a store works. When some body walks in the door, the person's body stops the beam of light from reaching the electric eye

The picture shows two electric eye beams on the side of doors. The number  ${\bf 1}$  shows the beam that is broken first. The number  ${\bf 2}$  shows the beam that is broken next. Write the letter of the correct arrow for each doorway









Lesson 73

15

Write the words that go in the blanks to tell about the steps you take to invent something.

10. You start with a

11. Then you build a of the invention to show how it works. **model** 

12. Then you get a to protect your invention. patent

13. What are businesses that make things called? manufacturers

14. Write the letter of the best deal for an inventor.

15. Write the letter of the best deal for a manufacturer.

a. 8 thousand dollars and two dollars for every copy sold

b. 8 thousand dollars and six dollars for every copy sold

c. 8 thousand dollars and four dollars for every copy sold

16. Name 2 things you could give a dog to reward it. (Any 2:) a bone,

a dog treat, a pat on the head, etc.

16 Lesson 73

### **WORKBOOK**

Name \_\_\_\_\_

74

#### A Story Items

- 1. Where will the animal show take place? Samson High School
- 2. On what day of the week will it be held? Friday
- 3. At what time will it start? 7 o'clock (in the evening)
- 4. How much is the admission? 1 dollar
- 5. Name 3 acts that will be in the animal show.

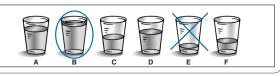
(Any 3:) rabbit walking tight ropes; cat riding a bicycle; dog playing water glasses; etc.

6. The more water the glass has, the the sound it makes

• higher • lo

7. Cross out the glass that will make the highest ring.

8. Circle the glass that will make the lowest ring.



9. What object did the dog use to tap the glasses? hammer

10. What did the dog do with that object at the end of the trick?
Idea: tossed it into the air

11. What trick would Gormer the rabbit do? Walk a tight rope

12. What trick would Henry the cat do? ride a bicycle

13. What song did Homer the dog play? Mary Had a Little Lamb

© SRA/McGraw-Hill. All rights reserved.

Lesson 74

.

### **WORKBOOK**

14. Waldo and Maria decided to cook the food for the show at the high school.

Why didn't they want to cook it at the pet shop? Idea: because
many animals would follow them

15. Why wasn't Waldo able to cook his food at the high school?

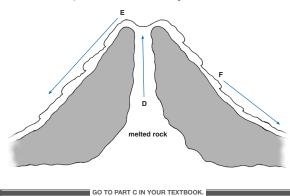
Idea: because the stove wouldn't work

16. What food will they use for rewards? Ideas: regular animal food;

#### Review Item

#### food from the pet shop

17. Draw arrows at D, at E and at F to show the way the melted rock moves.



Lesson 74 © SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

plan would be better than cooking in the pet shop and then bringing the food over in a car Maria had pointed out, "If you cook at the high school, we won't have a thousand animals following the car over to the high school."

So Waldo went to the kitchen of the high school. He laid out the things that he wanted to cook. Then he turned on the stove and waited for it to get hot. He waited and waited. Suddenly, he realized that the stove was not working. He ran from the kitchen and found Maria. "I can't cook," he said. "The stove doesn't work."

Maria didn't say anything for a moment. Then she said, "I'll go back to the pet shop and get some pet food that is supposed to be really good. I just hope the animals will work for that food."

"Me, too," Waldo said.

Number your paper from 1 through 20.

Use the words in the box to write complete sentences

folks	disturbed screeched		cute	audience
delivered	boring peppy		mobbed	attract
1. The spea				

#### **Review Items**

Skill Items

- 3. What's the name of geese that are gray and black and white? Canada geese
- 4. What's the name of geese that are all white? Snow geese
- 5. What color are all geese when they are born? **yellow**
- 6. In which direction do geese fly in the fall? **South**
- 7. What is this trip called? **migration**
- 1. The boring speaker disturbed the audience.
- 2. A lot of folks mobbed around the cute singer.
- 20 Lesson 7

- 8. When geese learn to fly, do they start in the water or on the land? on the land
- 9. They run with their out to the side. Wings
- 11. The hottest part of the earth is called the
  - pole
  - desert
  - equator
- 12. How long ago did dinosaurs live on the earth?
  - · a hundred years ago
  - · a hundred million years ago
  - a million years ago
- 13. Most of the things that we use everyday were invented after the year
  - 1900 • 2000 • 1800
- 14. What does an inventor get to protect an invention? patent
- 15. Special lawyers who get protection for inventions are called
  - patents
  - dentists
  - patent attorneys
- 16. Why don't smart manufacturers act interested in the inventions that they want? Write the letter of the answer.
  - a. because they are at the fair all day long
  - b. because they want to pay more for the invention
  - c. so they don't have to pay as much for the invention
- 17. If an invention wins a prize, would a manufacturer have to pay money for it? yes

Lesson 74

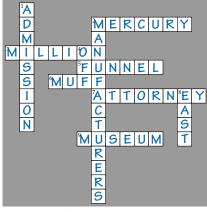
21

### **WORKBOOK**

Name

A Skill Items

attorney east north million muff inventors Mercurv hundred admission off Venus liquid funnel rocket thousand walrus museum manufacturers



#### Across

- 2. A planet that is close to the sun is
- 3. A word for a thousand thousands
- is a
- 5. A whirlpool is shaped like a 6. Something you can wear over your
- ear to keep it warm is an ear 7. Another word for **lawyer** is

© SRA/McGraw-Hill. All rights reserved

9. A place that has many different kinds of exhibits is called a

- 1. The amount you pay to get into a show is called the
- 2. Inventors usually try to find to make their products.
- 4. If something is not turned on, it is turned
- 8. West is the opposite direction of

Lesson 75

### **TEXTBOOK**

#### Study Items

- Get two glasses that look the same. The glasses must be made of glass, not plastic or paper.
- Fill one glass half full of water.
- · Tap the glass and listen to the sound it makes.
- · Now fix up the second glass so that it makes the same sound as the first glass.

#### Write the answers to these items.

- 18. How much water is in the second glass when both glasses make the same sound? Ideas: half full of water; the same amount as
- 19. Change the amount of water in the second glass so it makes a the first glass sound that is lower than the sound of the first glass. Did you add water to the second glass or take water away? add water
- 20. Find out how a xylophone works and tell how its keys are like glasses of water

ldea: The larger keys make lower sounds and smaller keys make higher sounds, just like more water makes a lower sound and less water makes a higher sound.

**WORKBOOK** 

Story Items

1. About how many people came to see the animal show?

Two thousand (2,000)

- 2. Was the show a **flop** or a **success**? **a flop**
- 3. Why did the animals act the way they did? Idea: because they didn't get any of Waldo's special food
- 4. What trick does Homer the dog usually do?
  - <u>ldea: plays a song on glasses of water</u>
- 5. How well did Homer do his trick the first time he did it in the show? Ideas: perfectly; very well
- 6. What did Waldo use to reward Homer? Idea: an ordinary
- 7. Did Homer like that reward? **no dog treat**
- 8. Did Homer perform well again? 10
- 9. What did Waldo usually use to reward the tap-dancing pigeons? <u>Idea: his special food</u>
- 10. What did Waldo use during the show to reward the pigeons? bird seed
- 11. Did the pigeons keep doing their trick for that reward? 10

GO TO PART C IN YOUR TEXTBOOK.

Lesson 75

Maria came onto the stage again "Sorry about that, folks," she said. She was trying to smile. "But you know how animals are. Let's hope our next act will do a little better. This act is one of the most amazing acts vou will ever see. If vou've never seen pigeons tap dance, this act will be a real treat for you. And here they are, ladies and gentlemen, the tap-dancing pigeons.

The crowd applauded. Some people were saying, "I've seen this act and it is great."

The tap-dancing pigeons weren't very great this time. Waldo brought out the pigeons, turned on the peppy music and gave the birds the signal to start dancing. And they danced quite well, at least for a while. Usually, Waldo would toss them little bits of special food as they danced. This time, he tossed them little bits of bird seed. The birds blinked and spit out the seeds. Before the song

was half over, one of them stopped dancing and started to peck at the buttons that were attached to its feet. Then one of the other birds started dancing out of time with the music. Soon that pigeon stopped dancing. It pecked at the third bird. The third bird pecked the first bird. The first bird flew to the back of the hall and landed on top of a picture.

"This is a bad act," somebody shouted from the back of the audience. Again, the people in the audience began to talk to each other. Maria came out on the stage and smiled. She tried to talk, but the people in the audience did not listen They were busy talking to each other. They were saying things like, "Who said this was a good show?" and "These animals aren't even trained well."

Waldo was thinking, "I hope this show will be over soon.

Number your paper from 1 through 16.

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

- 1. Maria told Waldo that there were nearly two thousand people in the hall. beginning
- 2. The first bird flew to the back of the hall and landed on top of a picture. end
- Waldo gave Gormer a little piece of carrot. middle

Lesson 75

25

76

### TEXTBOOK

#### **Review Items**

- 4. The more water the glass has, the the sound it makes.
  - lower higher
- 5. Write the letter of the glass that will make the lowest ring.
- 6. Write the letter of the glass that will make the highest ring.



- 7. The men who invented the first airplane saw a need. What need? Idea: to get to places faster
- 8. What is a person doing when the person makes an object for the first time? inventing
- 9. The person who makes an object for the first time is called an inventor
- 10. The object the person makes is called an **invention**
- 11. Whirlpools are made up of moving ........................ water
- 12. A whirlpool is shaped like a funnel
- 13. What happens to something that gets caught in a whirlpool?
- 14. Things closer to the bottom of the pile went into the pile arlier.
- 15. Does Io move around Jupiter fast or slowly? fast
- 16. It takes Io about to go all the way around Jupiter. 2 days

13. Idea: It goes around and around as it goes down.

Lesson 75

### **WORKBOOK**

Name

A Skill Items

overboard ordinary Alaska บรบลโ Florida parents stomach restless common city state snow Canada country oxygen blister sore



- 4. Things you see all the time in different places are things.
- 6. When things go over the side of a ship, they go
- 8. Geese that are gray and black and white are called geese.
- 9. When you feel , you don't want to keep doing what you're doing.
- 10. Japan is a

© SRA/McGraw-Hill. All rights reserved

- 1. You may get a on your foot if your shoe doesn't fit well.
- 2. Oomoo and Oolak lived in the state
- 3. When Wendy was on Io, she had to wear an tank so she could breathe
- 5. If you are hungry, your may
- 7. Your mother and father are called your

11 Lesson 76

### **WORKBOOK**

- Story Items
- 1. How did the people in the audience feel about the animal show? Idea: They didn't like it.
- 2. People returned their trained animals to the pet shop. Why wouldn't those animals do their tricks? Idea: because they didn't get Waldo's special food
- 3. What did the people want? Ideas: a refund; their money
- Did Waldo eat very much dinner? 10
- What was he thinking about during dinner? <u>ldea: how to train animals for new rewards</u>
- 6. Where did he go right after dinner? to his bedroom
- 7. Waldo's father said that Waldo had a training
- The animals would work for Idea: Waldo's special food but they would not work for Idea: any other rewards
- Waldo could solve this problem by training the animals to work for

<u>Idea: other rewards</u>

GO TO PART C IN YOUR TEXTBOOK.

Lesson 76

SRA/McGraw-Hill. All rights reserved

Number your paper from 1 through 19.

Skill Items

The tour to the islands was a fantastic experience.

- 1. What word describes each thing you do? experience
- 2. What's another word for a trip to several places? tour
- 3. What's another word for wonderful? fantastic

#### **Review Items**

- 4. Which is smaller, Alaska or Japan? Japan
- 5. Is Japan a state or a country? Country
- 6. How many people live in Japan?
  - 127 127 million
- 127 thousand
- 7. Which planet has more clouds around it, Earth or Mars? Earth
- 8. Which planet is smaller? Mars
- 9. Which planet is colder? Mars
- 10. Why is that planet colder? Idea: It is farther from the

Use these names to answer the questions:

Tyrannosaurus, Triceratops.

11. What is animal G? Triceratops

12. What is animal H? Tyrannosaurus

30 Lesson 76

#### **TEXTBOOK**

- 13. Captain Parker's ship passed through a place where hundreds of ships have sunk or been lost. Name that place. Bermuda Triangle
- 14. Which came earlier on Earth, dinosaurs or horses? dinosaurs
- 15. Which came earlier on Earth, strange sea animals or dinosaurs? Strange sea
- animals 16. Name 3 animals that are warm-blooded. (Any 3:) bears, humans, dogs, etc.
- 17. Name 3 animals that are cold-blooded. (Any 3:) fish, sharks, reptiles, etc.
- 18. The picture shows half a hailstone.

  How many times did the stone go through a cloud?



31

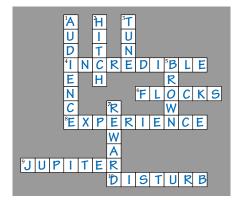
19. How long does it take Jupiter to spin around one time? 10 hours

### **WORKBOOK**

Name \_

A Skill Items

flocks
Saturn
tune
reward
herds
incredible
green
audience
brown
Mercury
chant
experience
terrific
Jupiter
disturb
hitch



#### Across

- 4. Another word for amazing is
- 6. Geese live in large groups called
- o. Geese live in large groups called
- 8. Each thing you do is an
- 9. Io is a moon of the planet
- 10. Another word for **bother** is



#### Down

- 2. Here's another way of saying He will tie the dog to the sled: He will the dog to the sled.
- 5. Jupiter is orange, white and
- Something you get for doing a good job is a for doing that job.

### WORKBOOK

- Story Items
- 1. Waldo read until late at night and then went to bed. Why didn't he go to sleep right away? Ideas: He was thinking about what he'd read/retraining the animals.
- When you teach animals to work for new rewards, do you change the reward quickly or slowly? Slowly
- 3. When you teach an animal to work for a new reward, what kind of reward do you start with? **Idea: one the animal will work for**
- 4. Then what do you do to that reward? Idea: slowly change it
- 5. When do you stop changing the reward?  $\_$
- 6. What reward do Waldo's animals work for? Idea: his special
- 7. When Waldo teaches his animals to work for new rewards, what reward will he start with? Idea: his special food
- 8. Then what will he do to that reward? Idea: change it slowly
- 9. How long did the school day seem to Waldo? \_
- 10. Where did he go right after school? Idea: to the pet shop
- 11. What did he start doing as soon as he got there?

  Idea: cooking some special food

GO TO PART C IN YOUR TEXTBOOK.

- 5. Ideas: when it becomes the new reward; when the animal will work for the new reward
- 9. Ideas: very long; a year long

14 Lesson 77 © SRA/McGraw-Hill. All rights reserved.

The school day seemed to drag on and on. Waldo looked at his watch every five or ten minutes. Each time, he said to himself, "Will this school day ever be over?

It seemed as if a whole year passed before the last bell of the school day rang. The kids rushed from their classroom. Waldo was one of the first outside. He ran to the pet shop. When he arrived there, he was out of breath. But he didn't waste a second. He went into the kitchen

and fixed some food. He didn't pay much attention to the three dogs and the goat that were looking in the kitchen window. Then he took his food inside the pet shop. The animals were jumping around and making a lot of noise.

Maria looked at him, and he looked at her. With a smile, he said, 'Well, I sure hope it works.'

Maria said, "We'll soon find out." And they did.

# Number your paper from 1 through 17.

Skill Items

Use the words in the box to write complete sentences.

waste	cute	fantastic	refund	folks			
shortly	deserved	experience	tour	mobbed			
1. A lot of the singer.							
2. The to the islands was a							

#### Review Items

- 3. Write the letters of 3 types of products that are used in the United States and manufactured in Japan. b, d, f
  - a. books e. furniture
  - b. cars f. CD players
  - g. Mr. Light Saver d. TVs
- 1. A lot of folks mobbed the cute singer.
- 2. The tour to the islands was a fantastic experience.

#### TEXTBOOK

- 4. Two things happen to melted rock when it moves down the sides of a volcano. Name those two things. Idea: It gets cooler and it hardens.
- 5. What is it called when the earth shakes and cracks? earthquake; quake
- 6. Which uses up more oxygen, sleeping or jumping? jumping
- 7. What's another name for hot, melted rock?
- 8. What color is lava when it's very hot?
  - brown orange
- 9. What color is lava after it cools a little bit? brown
- 10. What color is lava after it's completely cooled? gray
- 11. Which has more gravity, Jupiter or Io? Jupiter
- 12. Which is smaller than Earth?
- 13. Where can you jump 8 feet high?
- 14. Which has a stronger gravity, Earth or Jupiter? Jupiter
- 15. So where would you feel lighter? Earth
- 16. The earth makes a circle around the sun one time every \_\_\_\_\_. year
- 17. How many days does it take the earth to make one full circle around the sun? 365

Lesson 77

35

### **WORKBOOK**

Name.

#### Story Items

Fill in each blank with the word regular or the word coated. 1. Waldo trained the pigeons to work for a new reward. First Waldo rewarded the pigeons with his special food. Next, Waldo rewarded the pigeons with

two <u>coated</u>

2. Next, Waldo rewarded the pigeons with two **Coated** seeds and one regular

3. Next, Waldo rewarded the pigeons with two regular seeds and one coated

4. At the end, Waldo rewarded the pigeons with three **regular** 

5. Waldo trained the rabbit to work for a new reward. First, Waldo rewarded the rabbit with his special food. Next, Waldo rewarded the rabbit with two pieces of **coated** 

6. Next, Waldo rewarded the rabbit with two pieces of **coated** 

carrots and one piece of regular 7. At the end, Waldo rewarded the rabbit with three pieces of \_\_\_ carrots.

8. Which people did Maria call after Waldo retrained the animals? dea: the people who had returned their animals to

the pet shop 9. What did she tell those people about the animals? Idea: that the animals would work for

regular food Fill in each blank with the word top or the word bottom.

10. A regular pyramid has one animal at the top 11. An **upside-down pyramid** has one animal at the **bottom** 

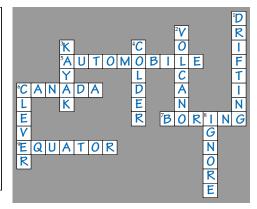
pyramid.

© SRA/McGraw-Hill. All rights rese

### **WORKBOOK**

Skill Items

truck kayak pole boring crater Canada Alaska volcano intelligent drifting equator clever hotter ignore colder earthouake automobile



- 5. Another word for **car** is
- 6. Most wild geese are born in
- 7. Interesting is the opposite of
- 9. The part of the earth that receives more heat than any other part is

- 1. When an ice chunk is being moved by a current, we say that the ice chunk is
- 2. A mountain that erupts is called a
- 3. The kind of boat that Eskimos use is a
- 4. The farther you go from the equator, the it gets.
- 6. Another word for very smart is
- 8. When you don't pay attention to something you that thing.

GO TO PART C IN YOUR TEXTBOOK.

#### Number your paper from 1 through 21. **Story Items**

Idea: It was

1. Why didn't Waldo like his idea of making a regular pyramid? too easy.

2. What super trick is Waldo training the animals to do? an upside-down pyramid

- 3. What animal will be at the bottom of that pyramid? Pyram Ideas: a huge dog; a St. Bernard
  4. What was the first animal that Waldo trained for the super trick? Ideas: a huge dog; a St. Bernard
  5. The two smaller dogs had to jump to a special place on the big
- dog's back. Which dog stood with its paws on the huge dog's head? the black dog
- 6. Which dog stood on the huge dog's rear end? the spotted dog

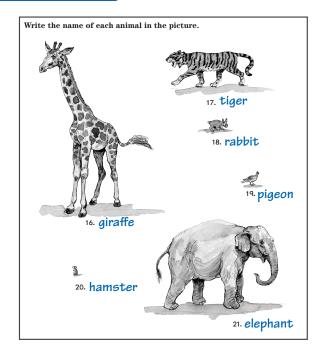
#### Review Items

- 7. When you teach animals to work for new rewards, do you change the reward quickly or slowly? Slowly
- 8. When you teach an animal to work for a new reward, what kind of reward do you start with? Idea: one the animal will work for
- 9. Then what do you do to that reward? Idea: slowly change it
- 10. When do you stop changing the reward?
- 11. When you teach an animal a simple trick, when do you reward the animal? Idea: when it does the trick;
- 12. When don't you reward the animal? Idea: when it doesn't do the trick

  13. Let's say that you want to teach an animal a very hard trick.
- Can the animal do the trick at first? 10
- 14. What will happen if the animal doesn't receive any rewards until it does the trick? Idea: The animal will stop trying to do the trick.
- 15. When you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick

10. Ideas: when it becomes the new reward; when the animal will work for the new reward

#### TEXTBOOK



Lesson 78

### **WORKBOOK**

Name

**79** 

Story Items

- 1. In what country are the states of Colorado and Utah? United States
- 2. Name the mountains you drive over to get from Colorado to Utah. Rocky Mountains
- 3. In which direction do you go to get from Colorado to Utah? West
- 4. Name 2 cities in Colorado. Denver, Greeley

6. Write north, south, east and west in the correct boxes

- 5. Name one city in Utah. Salt Lake City
- 7. Make an R on the state of Colorado 8. Make a T on the state of Utah. north T R east west south

**WORKBOOK** 

Story Items

9. What animal was at the bottom of the upside-down pyramid? Ideas: a huge dog; a St. Bernard

- 10. Which dog stood on the huge dog's rear end? the spotted dog
- 11. Which dog stood with its paws on the huge dog's head? the black
- 12. How many cats were in the pyramid? 4
- 13. What animals did the cats stand on? Idea: the smaller dogs
- 14. How many squirrels were in the pyramid? <u>8</u>
- 15. What animals did the squirrels stand on? the cats
- 16. How many pigeons were in the pyramid? 16
- 17. What animals did the pigeons stand on? the squirrels
- 18. Waldo and Maria didn't show the upside-down pyramid before the animal show. Why not?
- 19. How many times did the dancing pigeons do their act? 2 times
- 20. How well did they do their act? Ideas: perfectly; very well
- 21. How did the audience respond to the dancing pigeons? Ideas: They loved it; they went wild.
- 22. What did the audience do while Homer played "Mary Had a Little Lamb"? Ideas: clapped in time with the music: applauded
- 18. Ideas: because they wanted the pyramid to be a surprise; because it was a super trick

GO TO PART D IN YOUR TEXTBOOK.

Lesson 79

C SRA/McGraw-Hill. All rights reserved

Next was the dog that did backward somersaults in the air. First Waldo held out a stick and signaled the dog to jump over the stick. Then Waldo signaled the dog to roll over, to sit up, to speak and to walk on its hind legs. Then Waldo signaled the dog to do the backward

somersaults. When the dog started to do the somersaults, the people in the audience counted together, "One . . . two . . . three . . . four . . . five . . . six." Then the people applauded, as Waldo tossed some dog treats to the

Now came the super act.

# Number your paper from 1 through 16.

- $1.\,$  Did Waldo use his special food to reward the animals during the animal show? 10
- 2. What did he use? regular food
- 3. One act was the dog that did backward somersaults. What did the audience do while that dog did somersaults?
- 4. How many somersaults did the dog do? 6
- 5. What act comes right after the dog that does somersaults?

The upside-down pyramid

**Skill Items** 

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

- 6. Waldo gave the pigeons the signal to dance again. middle
- 7. Just before the pet shop closed, Waldo showed Maria the animals he had just trained. beginning
- 8. Next was the dog that did backward somersaults in the air.
- 3. Idea: counted the somersaults

#### TEXTBOOK

#### **Review Items**

Fill in each blank with the word  ${f top}$  or the word  ${f bottom}.$ 

- 9. A regular pyramid has one animal at the of the pyramid.
- 10. An upside-down pyramid has one animal at the of the pyramid. bottom

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence

- · jumping up and turning upside down
- · jumping up and leaning backward
- · jumping up in the air
- 11. At first, you would reward the dog for jumping up in the air
- 12. Later you would reward the dog for
- 13. Later you would reward the dog for
  - · On planet A you can jump 10 feet high.
  - On planet B you can jump 30 feet high.
  - On planet C you can jump 5 feet high.
  - On planet D you can jump 20 feet high.
  - On planet E you can jump 3 feet high.
- 14. Write the letter of the planet that has the most gravity.
- 15. Write the letter of the planet that has the least gravity.  $\,\,$
- 16. Could you see very far on Jupiter with bright lights? 10

### 12. jumping up and leaning backward

13. jumping up and turning upside-down

**TEXTBOOK** 

TEST 8

80

#### Idea: when the animal does the trick

Number your paper from 1 through 26.

- 1. When you teach an animal a simple trick, when do you reward the animal?
- 2. When don't you reward the animal? Idea: when the animal doesn't do the trick
- 3. Let's say that you want to teach an animal a very hard trick. Can the animal do the trick at first? 10
- 4. What will happen if the animal doesn't receive any rewards until it does the trick? Idea: It will stop trying to do the trick.
- 5. So when you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick
- 6. The more water the glass has, the the sound it makes
  - $\bullet$  lower
- 7. Which glass will make the lowest ring? A
- 8. Which glass will make the highest ring?













- 9. When you teach animals to work for new rewards, do you change the reward quickly or slowly?
- 10. When you teach an animal to work for a new reward, what kind of reward do you start with? Idea: one the animal will work for
- 11. Then what do you do to that reward? Idea: slowly change it
- 12. When do you stop changing the reward? Ideas: when it becomes the new reward; when the animal will work for the new reward Fill in each blank with the word top or the word bottom.
- 13. A regular pyramid has one animal at the of the pyramid. top
- 14. An upside-down pyramid has one animal at the of the pyramid. bottom

47

### **TEXTBOOK**

- 15. In what country are the states of Colorado and Utah? United States
- 16. Name the mountains you drive over to get from Colorado to Utah. Rocky Mountains
- 17. In which direction do you go to get from Colorado to Utah? West
- 18. Name 2 cities in Colorado. Denver, Greeley
- 19. Name one city in Utah. Salt Lake City

20. Which letter shows Colorado? 21. Which letter shows Utah?

For each item, write the underlined word from the sentences in the box.

A lot of folks mobbed the cute singer.

The tour to the islands was a fantastic experience.

- 22. What underlining means wonderful? fantastic
- 23. What underlining means good-looking and charming? Cute
- 24. What underlining describes each thing you do? experience
- 25. What underlining means crowded around? mobbed
- 26. What underlining means **people?** folks

4.Ideas: a cat that would ring a bell; a dog that would keep rabbits and birds out of her garden; a cat that would honk a truck horn Name

81

#### Story Items

- 1. When the animals did the super trick at Samson High School, what did the birds do before they landed on the squirrels? Ideas: flew over
- 2. How did Waldo signal the birds to land on the squirrels? He whistled (loudly)
- 3. How did the audience feel about the pyramid act? Ideas: They loved it; they thought it was great.
- 4. Some people put in special orders for trained animals. Name one of those special orders.
- 5. What time of year is usually the busiest for the pet shop? Christmas
- 6. Did the pet shop have more business or less business than it had at Christmas? more business
- 7. What's a tour? Idea: a traveling show
- 8. How long would Waldo's tour last? about a month
- 9. How many shows is Maria planning for the tour? Over 30
- 10. How will Waldo keep up with his school work while he's on the tour? Idea: Maria will be his teacher.
- 11. What will Waldo and Maria ride in when they travel from city to city? a small truck
- 12. What will the animals travel in? a big trailer
- 13. Who will drive? Idea: Maria will hire a driver.
- 14. Before Waldo could go, he would need **permission** from his parents.

© SRA/McGraw-Hill. All rights reserved

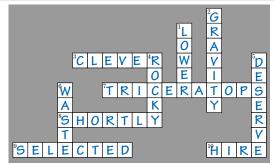
Lesson 81

19

### **WORKBOOK**

#### B Skill Items

involve	lower	Triceratops	gravity	tire	shortly
Rocky	higher	Tyrannosaurus	selected	regular	waste
contacted	clever	information	hire	deserve	



#### Across

- 3. Another word for very smart is
- 7. The name of the dinosaur that had horns and armor was
- 8. Another word for **soon** is
- 9. Another word for **chose** is
- 10. When you give someone a job, you that person.

#### Down

- 1. The more water the glass has, the the sound it makes.
- 2 Bigger planets have more than smaller planets.
- 4. To get from Colorado to Utah, you cross the Mountains.
- 5. Something you should receive is something you
- 6. When we use something the wrong way, we that thing.

GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights rese

#### TEXTBOOK

over that work with you. I'll be your teacher.'

Waldo smiled. "Do you mean we'll study on the tour?

"Sure," she said. "We're going to take a small truck and a big trailer. The animals will be in the trailer. You and I will be in the truck. We'll hire a driver to drive the truck. So you and I can study as we go from city to city."

Maria went on to explain that a person who puts on tours for good shows contacted her and set up the places they would go. "And we'll make a lot of money," Maria said. "All we need now is permission from your parents."

"Waldo, you're hardly eating," Waldo's mother said. "What's the matter?"

Waldo's sister said, "Oh, he doesn't eat any food unless he . . .

"That's enough," Waldo's father said. Then he turned to Waldo and said, "I feel that you're trying to tell us something. What is it?

"Well," Waldo said slowly. "Can I go on a tour and put on shows in over thirty cities with the animals?"

Waldo's mother sat up very straight and put her fork down. "What are you talking about?" she said. "What tour? Which cities?"

So Waldo explained the tour. Then he added, "I'll get my schoolwork done. The school has given permission. Everything is all set if you give me permission. Can

Number your paper from 1 through 11.

She will contact the person we want to hire.

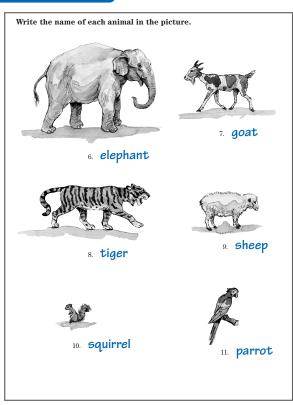
- 1. What word tells about giving somebody a job? hire

- 3. When you're training an animal, what do you do each time the animal does the trick? Idea: give the animal a reward to the animal animal does do the trick?
- Idea: don't give

4. What do you do if the animal does not do the trick? Idea: don't of the animal a reward to the animal a reward to the animal a reward it. (Any 2:) a bone, a dog treat, a pat on the head, etc.

Lesson 81 51

#### **TEXTBOOK**



52 Lesson 81

82

Name\_

#### Story Items

- Who did Waldo's father want to talk to before he gave Waldo permission to go on the tour? Maria
- 2. What did Waldo's father think after he talked to Maria? **Idea: that** it sounded like a very good tour
- 3. How many shows did Waldo and Maria do **before** they got to Denver? 5
- 4. Which city did Waldo and Maria go to after Denver? Greeley
- 5. Which brakes stopped working first—the truck brakes or the trailer brakes? **trailer brakes**
- 6. Where was the truck when the brakes failed? in the mountains
- $\bullet$  Write B in front of each thing that happened  $\bf before$  the tour.
- Write **D** in front of each thing that happened **during** the tour.
- 7. B The driver hooked up the line for the trailer brakes.
- 8. D Waldo saw a mountain goat.
- 9. B Waldo's parents gave permission for Waldo to go on the trip.
- 10. B The driver explained why the trailer needed brakes.
- 11. D Maria and Waldo stopped studying and looked at the mountains.
- 12. D Waldo and Maria did a show in Denver, Colorado.
- 13. B Waldo and Maria did a show at Samson High School.
- 14. How did the truck engine sound to Waldo at the end of the story?
- 15. What did Waldo smell at the end of the story? Idea: burnt-out

# 14. Ideas: It was screaming; like it was going to fall apart

brakes

© SRA/McGraw-Hill. All rights reserved

son 82

21

### **WORKBOOK**

#### Review Items

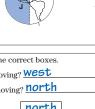
Look at the picture.

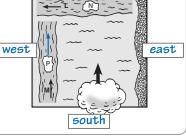
- 16. Shade the part of the earth where it is nighttime.
- 17. Which side of the earth is closer to the sun, J or K?
- 18. Which side of the earth is in nighttime?
- 19. Which side of the earth is in daytime? K





- 20. Write north, south, east and west in the correct boxes.
- 21. In which direction is ocean current L moving? West
- 22. In which direction is ocean current **M** moving? **north**
- 23. Which direction is the wind coming from?
- 24. Make an arrow above ice chunk **N** to show the direction the current will move the ice chunk.
- 25. Make an arrow above ice chunk **P** to show the direction the current will move the ice chunk.





GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

brakes, the pickup truck would have a hard time stopping.

Now the truck was going very fast down the mountain. The tires screeched as the truck went around a sharp curve. For a moment, it seemed as if the truck would go over the edge. In fact, the truck went through some stones on the side of the road. Then it came back on the road and continued to gain speed.

The driver said, "The trailer is pushing us, and the truck brakes are gone now."

The truck seemed to be flying down the road. It came up behind a car that was loaded with camping gear. The driver of the pickup truck honked the horn and went around the car like it was standing still. Faster, faster, faster. The truck was now on a long, straight part of the road, but the grade was very steep and the truck was going so fast that

the engine sounded as if it was ready to fly apart. Waldo could smell the burnt-out brakes.

Waldo was almost afraid to look outside, so he watched the driver. The driver had his foot pressed down hard on the brake pedal, but the pickup truck continued to speed down the long, straight part of the road. The driver turned on the truck lights and pressed his hand against the horn. Waldo understood what the driver was trying to do. He was trying to warn the other cars on the road that the truck was in trouble. The sounds were terrible—the engine screaming, the horn blasting, the air rushing outside the truck. And the smell of the burnt-out brakes was strong. Waldo felt sick. He tried not to think about what was happening. He tried not to think about his animals in the trailer and what might happen to them.

## Number your paper from 1 through 8.

Skill Items

Use the words in the box to write complete sentences.

experience	regular	fastened	fantas	tic hire
couple	tour	contact	remind	difficult
	islands was	tour, fant	astic, experience ct, hire	
	-		-	

# TEXTBOOK

#### **Review Items**

- 3. The pilot of Traveler Four turned off the engines when the spaceship was out in space. Did the ship slow down? 110
- 4. Was there any air outside the spaceship? 100
- 5. Which planets have stronger gravities, the bigger planets or the smaller planets? bigger planets
- 6. A person weighs 100 pounds on Planet A and 90 pounds on Planet B. Which planet has stronger gravity?
- 7. The arrow on the map goes from San Francisco to Japan 8. Which ocean does the arrow cross? Pacific (Ocean)
  - San Francisco

Lesson 82

Lesson

57

Name\_

#### Story Items

- 1. Why couldn't the driver stop the truck? Idea: because the brakes weren't working
- 2. How many pounds of weight do you have to push down with to make the emergency brake work? at least 80 pounds
- 3. If the huge dog had **all** its weight on the brake, would the brake work?
- 4. Did the huge dog weigh more than 100 pounds or less than 100 pounds? more than 100 pounds
- 5. How many paws did the huge dog have on the brake? 2
- 6. Was the weight of the three dogs enough to make the brake work?  $\ensuremath{\mbox{\sc yes}}$
- Was that enough weight to make the brake stop the trailer very fast? <u>no</u>
- 8. Why was it important for the trailer to stop fast? Ideas: They might crash; they might go over the edge; the animals
- might get hurt. 9. What did Waldo do to get more weight on the brake? Ideas: He told the cats to get on the pyramid; he signaled the cats

#### Review Items

10. Write the names of the 9 planets, starting with the planet closest to the sun. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

Lesson 83

TEXTBOOK

"Cats," Waldo velled, "Cats, get on the pyramid." He signaled the cats. For a moment, they stood without moving. Then, with one great leap, the first cat jumped onto the back of the spotted dog. Then another cat, and another. Finally, the last cat got on the pyramid.

The truck was almost to the

# Number your paper from 1 through 15.

- 1. Does Io move around Jupiter fast or slowly? fast
- 2. It takes Io about to go all the way around Jupiter. 2 days
- 3. What planet is shown in the picture?  $\mbox{ Jupiter}$
- 4. Which is bigger, the "eye" of the planet or Earth? the eye

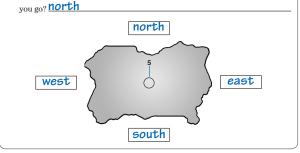


5. How long does it take Jupiter to spin around one time?

about 10 hours

#### **WORKBOOK**

- 11. In which direction do geese migrate in the fall? South
- 12. In which direction do geese migrate in the spring? **north**
- 13. Write the directions north, south, east and west in the boxes. 14. Make a line that starts at the circle on the map and goes north.
- $15. \ \ \mbox{If you start at the circle and move to the number 5, in which direction do$



- 16. How many moons does Jupiter have? 63
- 17. How many moons does Saturn have? 47
- 18. Which planet has more moons, Saturn or Jupiter? Jupiter
- 19. How far is it from Earth to Jupiter? 400 million miles
- 20. Do gases surround Io? 10
- 21. How much oxygen is on Io? Idea: none

GO TO PART C IN YOUR TEXTBOOK.

**TEXTBOOK** 

6. The more water the glass has, the the sound it makes.

ullet lower higher

7. Write the letter of the glass that will make the lowest ring.



- 9. In what country are the states of Colorado and Utah? United States
- 10. Name the mountains you drive over to get from Colorado to Utah. Rocky Mountains
- 11. In which direction do you go to get from Colorado to Utah? West
- 12. Name 2 cities in Colorado. Denver; Greeley
- 13. Name one city in Utah. Salt Lake City

14 Which letter shows Colorado?

15. Which letter shows Utah? G



Lesson 83

Name

Write the name of each kind of coral below the correct picture.

• red coral

• staghorn coral







1 staghorn coral 2 brain coral

3. red coral

- 4. Coral is made up of the **skeletons** of tiny **animals**
- 5. An underwater hill that is covered with coral is called a coral reef
- 6. Where do the animals that make up a coral reef spend their whole life?
  - · all over the ocean
- · in one place

#### Story Items

- 7. The weight of three dogs and four cats was on the emergency brake. Was that more than 80 pounds? **Yes**
- 8. Was that enough weight to stop the truck? **Yes**

#### **WORKBOOK**

- 9. To keep the brake locked in place, the driver turned <u>a screw</u>
- 10. After the truck had stopped, what treat did Waldo give the animals? <u>Idea: some of his special food</u>
- 11. Why did he give them a treat? Ideas: because they had done the trick/saved everyone/stopped the truck
- 12. What trick did the animals do for the people who gathered around the truck? upside-down pyramid
- 13. How long did it take to get the brakes fixed? Idea: less than
- 14. Where did the truck and trailer go after the brakes were fixed? Ideas: Utah; Salt Lake City
- 15. What followed the truck and trailer? Idea: a line of cars
- 16. Waldo remembered one show as the greatest show his animals ever did. Where did that show take place? Ideas: in the trailer; on the mountain road

#### Skill Items

Here are 3 events that happened in the story. Write beginning, middle or end for

- 17. The show in Utah was a great success. end
- 18. The truck was at the curve now, but it was hardly moving. **beginning**
- 19. Two other policemen were directing traffic around the truck and trailer. middle

GO TO PART D IN YOUR TEXTBOOK

© SRA/McGraw-Hill. All rights reserved

#### TEXTBOOK

Waldo looked at Maria, She smiled. "I'll show you the trick that I like best," Waldo said.

Waldo signaled the huge dog to stand next to the road. Then he signaled the two smaller dogs. They jumped onto the back of the huge dog. Then came the cats. Then came the squirrels. Finally, Waldo whistled and sixteen pigeons landed on the squirrels. For a moment, the crowd was silent. Then people began to clap and cheer, "That's amazing," some of them shouted.

"Yes," Waldo said. "That's the best trick in the world." It was the best trick in the world because it saved so many lives.

Waldo signaled the pigeons and they flew from the pyramid. The

squirrels jumped down, the cats jumped down, followed by the two smaller dogs

Within an hour, the brakes on the trailer and the truck were fixed, and the truck continued on its way to Utah. A long line of cars followed the trailer.

The show in Utah was a great success. The newspapers carried stories about the experience that Waldo and Maria had in the Rocky Mountains.

Waldo was very pleased with the show. But the show that he remembered as the greatest one his animals ever did took 🏶 place in a trailer that was speeding down a mountain road.

#### **TEXTBOOK**

7. Which planet in the picture has more gravity?

8. How do you know? It's larger.







- 9. If an object weighed 20 pounds on Earth, would it weigh more than 20 pounds on our moon? 10
- 10. Which is larger, Earth or Jupiter? Jupiter
- 11. If an object weighed 20 pounds on Earth, would it weigh more than 20 pounds or less than 20 pounds on Jupiter?

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence.

- · jumping up in the air
- · jumping up and turning upside down
- jumping up and leaning backward
- 12. At first, you would reward the dog for \_\_\_\_\_\_ jumping up in the air
- 13. Later you would reward the dog for jumping up and leaning backward 14. Later you would reward the dog for
- 15. When you teach animals to work for new rewards, do you change the reward quickly or slowly?

Fill in each blank with the word top or the word bottom.

- 16. A regular pyramid has one animal at the of the pyramid.
- 17. An upside-down pyramid has one animal at the of the pyramid. bottom

14. jumping up and turning upside down

Number your paper from 1 through 20.

- 1. If you can see the sun, it is on your side of the earth. daytime
- 2. What is it on the other side of the earth? nighttime
- The earth turns around one time every hours.
- 4. What kind of boat do Eskimos use in the summer? kayak
- 5. Why don't they use those boats in the winter?
- 6. How long ago did dinosaurs live on the earth?
  - · a hundred years ago
  - a hundred million years ago

• a million years ago
5. Ideas; because the water is frozen; because of
the ice floes; because the winds are too strong

- 18. Write the letter of the clouds that have frozen drops of water.
- 19. Write the letter of the clouds that may stay in the sky for days at a time.
- Write the letter of the storm clouds.







END OF LESSON 84 INDEPENDENT WORK

### SPECIAL PROJECT

For this project, your group may either decide to train an animal a new trick or write a report that tells how you would train an animal.

If the group decides to train an animal, think about training a pigeon to do a dance. Pigeons learn to dance quite fast. If you train a hamster or a white rat, the training will take more time because these animals will not learn the trick as fast as a pigeon learns to dance. But you may teach a rat to walk a rope or teach a hamster to climb to the top of a tower that you make.

If you train an animal, write a report that tells how you did it. Tell about the rewards that you used to train the animal and tell about the steps that you used in training the animal.

If you do not train an animal, write a report that tells which rewards you would use and how you would use them. Tell all the things you would do to train the animal. Remember, the animal will not be able to do the trick the first time it tries, so you have to reward the animal for trying.

Lesson 84/Special Project

### **WORKBOOK**

Name

#### A Story Items

- 1. What was Darla deathly afraid of? Water
- 2. Name 2 things Darla wasn't afraid of. (Any 2:) snakes: the dark; high places; mice; beetles; spiders
- 3. How would Darla feel when water got up to her neck? Ideas: very afraid; like it would choke her
- 4. Name 2 acts of bravery. (Any 2:) saving someone from a burning building; climbing a mountain; etc.
- 5. Complete the rule about being brave. To be brave, you must do things that are hard for you to do
- 6. Was holding snakes an act of bravery for Darla? <u>no</u>
- 7. Tell why. Idea: because holding snakes wasn't hard for her to do
- 8. Was swimming an act of bravery for Darla? Yes
- 9. Tell why. Ideas: because she was afraid of water; because it was hard for her to do
- 10. Where was Darla going to take swimming lessons? at the high school
- 11. What sign did Darla have to show that she became frightened when she thought about swimming? Idea: Her palms were sweaty.

### **WORKBOOK**

#### Review Items

12. Write the missing seasons on the picture below

13. Shade half of earth R and half of earth T. u. <u>fall</u> T. Summer s. spring

- 14. Which uses more oxygen, running or sitting? running
- 15. What's another name for hot, melted rock? lava

GO TO PART C IN YOUR TEXTBOOK.

### **TEXTBOOK**

decided that I won't like myself very much unless I'm brave.

Julie said, "I think they're going to give swimming lessons at the high school. I hear that the instructor is very good."

Darla made a face. "Every time I think about it, I get scared. Feel the palms of my hands." The palms were sweaty. Darla said, "I'm scared. But I'll do it.'

Number your paper from 1 through 18.

I have confidence that we can avoid a long conversation.

- 1. What word describes people talking to each other about something? conversation
- 2. What word tells what you do when you stay away from something? **avoid**
- 3. What word tells that you are sure about something? confidence

#### Review Items

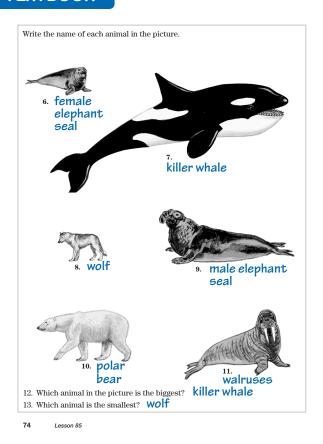
**Skill Items** 

- 4. Which globe shows how the earth looks on the first day of
- 5. Which globe shows how the earth looks on the first day of summer? Q

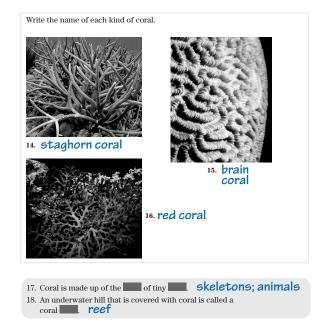








### **TEXTBOOK**



Lesson 85

75

## **WORKBOOK**

Name \_\_\_\_\_

86

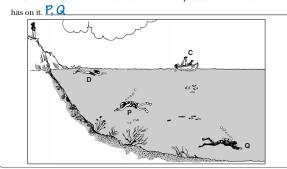
- $\Box$
- When you dive down 33 feet, you have 2 \_\_\_\_\_\_ times the pressure on you that you have at the surface.
- 2. When you dive down 66 feet, you have 5 times the pressure on you that you have at the surface.

#### Write the missing numbers in the blanks.

0feet	surface pressure	
3. <b>33</b> feet	2 times surface pressure	
4. <b>66</b> _feet	3 times surface pressure	-
5. feet	4 times surface pressure	9

feet 4 times surface pressure 99; 100

- 6. Write the letter of the body that has the **least** pressure on it. 
  7. Write the letter of the body that has the **most** pressure on it. 
  Q
- 8. Write the letters of all the bodies that have more pressure on them than D

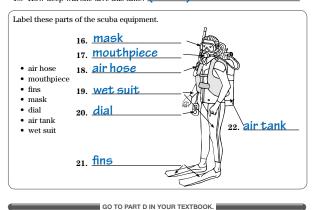


A/McGraw-Hill. All rights reserved. Lesson 86

## **WORKBOOK**

- 3 Story Items she breathed water through her nose.
- 9. What does the color of water tell you about the water? Idea: how deep the water is
- 10. Name 2 things Darla did when she was learning to swim.

  (Any 2:) how to float; how to breathe while she
  swam; how to kick; how to pull with her arms
- 11. What was Darla getting ready to do in this story? <u>ldeas: go</u> <u>scuba diving; dive off a diving boat</u>
- 12. What problem did Darla have with her scuba mask the first time she tried to wear it?
- 13. How did she **feel** when that happened? **Idea: panicky**
- 14. What was the deepest dive Darla had ever made? 50 feet
- 15. How deep will she dive this time? (about) 100 feet



Lesson 86 © SRA/McGraw-Hill. All rights reserved

Ideas: when it becomes the new reward; when the animal will work for

### Number your paper from 1 through 17.

**Skill Items** 

success	avoid	instructor	hire c	conversation
confidence	panic	separate		directing
. She will the	person we			act, hire

#### Review Items

- 3. How old are geese when they mate for the first time? 3 (years old)
- 4. After male and female geese mate, how long do they stay together? | Idea:
- 5. Most geese live for about years. 30
- 6. When you teach an animal to work for a new reward, what kind of reward do you start with? Idea: one the animal will work for
- 7. Then what do you do to that reward? Idea: slowly change it
- 8. When do you stop changing the reward?
- 9. Which has stronger gravity, Earth or Jupiter? Jupiter
- 10. So where would you feel heavier? Jupiter
- 11. Which uses up more oxygen, hopping or sleeping? hopping
- 12. What's another name for hot, melted rock? ava
- 13. Write the letters of the 6 things that tell about Jupiter. a, b, d, e, f, h
  - a. It has more gravity than Earth.
- e. It has stripes.
- b. It's brown, orange and white.
- f. It has 16 moons g. It's green and blue.
- c. It's small. d. It's huge.
- h. It's beautiful.
- 14. Let's say that you want to teach an animal a very hard trick. Can the animal do the trick at first? 10
- 15. What will happen if the animal doesn't receive any rewards until it does the trick? Idea: The animal will stop trying to do the trick.
- 16. So when you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick
- 17. Name  ${\bf 2}$  acts of bravery. (Any 2:) Saving someone from a burning building;

### **WORKBOOK**

Name .

#### Story Items

- 1. The diving boat was about 1,000 miles east of the United States.
- 2. Name the islands that are near the place they are diving.

#### Bermuda Islands

- 3. Were the divers north or south of those islands? South
- 4. In what ocean are they diving? Atlantic (Ocean)
- 5. What did the guide tell the divers to do if they got separated? <u>Idea: return to the surface</u>
- 6. How deep were the divers at the end of the story?  $\underline{66 \text{ feet}}$
- 7. How deep are the divers going to go? (about) 100 feet
- 8. If you go underwater that deep, the pressure is much greater than it is on land. How many times greater is it? 4 times
- 9. When divers are that deep, how long should they take to return to the surface of the water? at least/about 2 minutes
- 10. What may happen to the divers if they go up faster than that? Idea: They may get the bends.
- 11. What made Darla's ears hurt? the pressure
- 12. How deep was she when they started to hurt? 15 feet
- 13. If you move up too fast from very deep water, you may get the bends
- 14. What forms in your blood as you go up too fast? bubbles
- 15. When you go up very fast, is there more pressure or less pressure on your body? less pressure

© SRA/McGraw-Hill. All rights reserved

### **WORKBOOK**

#### Fill in the blanks to show how deep the divers would be.

- 16. When the diver is  $\frac{33}{}$ feet underwater, the pressure is two times as great as it is on land.
- When the diver is 66 feet underwater, the pressure is three times as great as it is on land.
- 18. When the diver is <u>100</u> feet underwater, the pressure is four times as great as it is on land.
- 19. Could Darla feel the weight of her air tank underwater? 100
- 20. Could Darla feel the pressure of the water? **Yes**
- 21. Name 2 things that were part of the incredible scene that Darla and Julie saw.
- 22. When Darla looked at the other divers below her, what did she think they looked like? insects

Ideas: A great

- 23. What happened each time a diver breathed? mass of bubbles came out; they made a hissing sound
- 24. What did the diving guide point out to the group? a (giant) ray fish
- $25. \,$  When you open a bottle of soda pop, what happens to the pressure inside the bottle? Idea: It goes down.
- 26. What forms in the soda pop? bubbles

GO TO PART C IN YOUR TEXTBOOK.

21. (Any 2:) a great reef; lots of plants; silver fish; plants like domes; etc.

© SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

Number your paper from 1 through 12.

#### **Review Items**

- 1. What's the name of the line that goes around the fattest part of the earth? equator
- 2. What's the name of the spot that's at the top of the earth?
- North Pole  $3. \ \mbox{What's the name of the spot that's at the bottom of the earth?}$ South Pole
- 4. When you dive down 33 feet, you have \_\_\_\_\_ times the pressure on you that you have at the surface. 2
- 5. When you dive down 66 feet, you have times the pressure on you that you have at the surface.
- 6. What part of the scuba equipment does the A show?
- 7. What part does the B show?
- 8. What part does the C show?
- 9. What part does the **D** show?
- 10. What part does the E show?
- 11. What part does the F show?
- 12. What part does the G show?
- 6. air tank
- 7. wet suit
- 8. air hose
- 9. fins
- 10. mouthpiece
- 11. mask
- 12. dial



Lesson 87

85

Name

#### A Story Items

- 1. How deep did the divers go? 100 feet
- 2. About how long did it take them to get there? ten minutes
- 3. Did things look darker or lighter at the bottom? darker
- 4. There weren't as many plants down there because there wasn't as much liaht
- 5. Name 3 things the great water pressure was doing to Darla. Ideas (anv 3): The mask pressed against her face: her ears rang; her mouth was dry; she had trouble
- swallowing. 6. Why did the bubbles following the divers look dark gray? Idea: because the water was so dark
- 7. What is the name of the arrow-shaped fish that Darla saw? <u>barracuda</u>
- 8. Write 2 facts Darla knew about these fish. Ideas (any 2): They're very dangerous; their mouths are filled with sharp teeth; they grow to almost 2 meters long.
- 9. Is the water cooler at 100 feet down or at the surface? at 100 feet down
- 10. Is all the water at 100 feet down the same temperature? 100
- 11. What should a diver's bubbles look like? large masses
- 12. What did Julie's bubbles look like? a small trail
- 13. What did that mean? Idea: Julie wasn't getting enough air.

33

#### **WORKBOOK**

- 14. Julie started to go to the surface very fast. Why did Darla want to catch Julie? Ideas: to stop her; so she wouldn't get the bends
- 15. Who could swim faster, Darla or Julie? Julie

#### Answer these questions about a buoyancy device:

- 16. What do you fill it with? air
- 17. When it is filled up, what happens to the diver? Idea: The diver moves up/floats/ages to the surface.
- 18. When it is empty, what happens to the diver? Idea: The diver moves down/sinks.
- 19. What hard decision did Darla have to make after she caught up with Julie? ldea: if she should share her air hose with Julie.
- 20. What did Darla decide to do? Idea: share her air hose
- 21. Did Julie want to share the air hose with Darla? 100
- 22. Julie didn't know what she was doing because she was in a state of

GO TO PART C IN YOUR TEXTBOOK.

## **TEXTBOOK**

Number your paper from 1 through 16.

#### The scuba diver and her partner surfaced near the reef.

- 1. What word describes a person you do something with? partner
- 2. What word tells about a ridge that forms underwater? reef
- 3. What words tell about someone who goes underwater with a mask and a tank of air? Scuba diver
- 4. What word tells that a person swam to the surface? **surfaced**

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

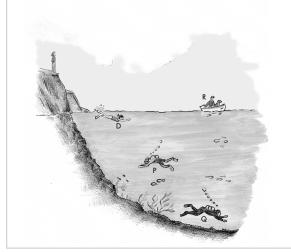
- 5. About ten minutes after the dive began, the group of divers had reached the bottom of the valley between two long reefs. beginning
- 6. Darla was starting to feel a little nervous, especially as she moved through a current of very cool water. middle
- 7. Now Darla was faced with one of the most difficult decisions she had ever made in her life. end

#### **Review Items**

- 8. What does the color of water tell you about the water? Idea: how deep the
- water is 9. If you're underwater 100 feet deep, the pressure is much greater than it is on land. How many times greater is it? 4 times
- 10. When divers are that deep, how long should they take to return to the surface of the water? at least/about 2 minutes
- 11. What may happen to the divers if they go up faster than that? Idea: The diver may get the bends.
- 12. When you open a bottle of soda pop, what happens to the pressure inside the bottle? Idea: It goes down.
- 13. What forms in the soda pop? bubbles

**TEXTBOOK** 

- 14. Write the letter of the body that has the least pressure on it.  $\cD$
- 15. Write the letter of the body that has the most pressure on it.  $\mathbb{Q}$
- 16. Write the letters of all the bodies that have more pressure on them than P has on it. Q



89

Name .

A

- 1. In what state is the Iditarod sled-dog race? Alaska
- 2. In which city does it begin? Anchorage
- 3. In which city does it end? Nome
- 4. The Iditarod is about miles from start to finish.
  - 500
- 1100
- 1600 miles
- 5. In most years, the race takes about
  - a week 10 day
- 2 weeks
- 6. The person who drives a sled-dog team is called a musher
- 7. The drivers of the sled-dog teams command the dogs by using their
  - reins
- · steering wheels
- voices

### Story Items

- 8. As Darla and Julie moved up to the surface of the water, they had to stop ten feet below the surface. How long did they wait there?
- 1 minute
- 9. Why didn't the girls go straight up to the surface? Idea: because they might get the bends
- 10. How did the water pressure change as the girls moved toward the surface?
- Idea: The water pressure went down/pushed against them with less force.

SRA/McGraw-Hill. All rights reserved.

esson 89

35

#### WORKBOOK

#### Skill Items

coral	overcome	Colorado	understand	emergency	instructor
bends	reef	California	surface	buoyant	suffer
oxygen	Utah	bare	success	bubbles	musher



#### Across

- 2. Another word for  ${\bf teacher}$  is
  - .
- 4. When you solve a problem, you the problem.
- A brake you use if the regular brake doesn't work is called an brake.
- 8. When you open a bottle of soda pop, form in the pop.
- 10. One of the states in the western part of the United States is

#### Down

- When you do very well at something, you have
- 3. An underwater hill that's covered with coral is called a coral
- The person who drives a sled-dog team is called a ...
- 7. is made up of the shells of tiny animals.
- If divers move up too fast from very deep water, they may get the

GO TO PART D IN YOUR TEXTBOOK.

Lesson 89

SRA/McGraw-Hill. All rights reserve

#### **TEXTBOOK**

understand scuba diving you must understand water pressure. The pressure on your body becomes very great when you dive. When you go down 33 feet in water, the pressure on your body is two times as great as it is when you're standing on land. When you go down 66 feet, the pressure on your body is three times as great as it is on land."

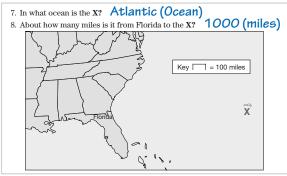
As Darla talked, her mind went back to the first time she had gone down 100 feet. Since that dive, she had gone down much farther. She had already taken ten dives below 130 feet and thirty dives below 100 feet. She had gone diving with her sister in the Pacific Ocean and the Atlantic Ocean. She had been swimming with seals, whales and even sharks. She no longer had fear of the water, but she remembered how she had felt on her first deep dive.

"Oh, yes," she said to the group. "Some of you may be afraid of the water. You can overcome that fear if you train yourself to think about the things you must do. I know that you can overcome the fear because when I started out, I was as afraid of the water as anybody that ever lived."

The people in the group smiled, and Darla went on with the instruction.

# **TEXTBOOK**

14. (Any 3:) the bends; ear pain; mask pushed tight against face; trouble swallowing Review Items



- 9. If you move up too fast from very deep water, you may get the bends
- 10. What forms in your blood as you go up too fast? bubbles
- 11. When you go up very fast, is there more pressure or less pressure on your body? less pressure
- 12. Do things look **light** or **dark** when you're 100 feet below the surface of the ocean? dark
- 13. There aren't as many plants down there because there isn't as much light
- 14. Name 3 things that great water pressure can do to you.
- 15. Name an arrow-shaped fish. barracuda
- 16. Write 2 facts about those fish. Ideas (any 2): They're very dangerous; their mouths are filled with sharp teeth; they grow to almost 2 meters long, etc.
- 17. What do you fill a buoyancy device with?
- 18. When it is filled up, what happens to the diver?
- 19. When it is empty, what happens to the diver? Idea: The diver moves
- 18. Idea: The diver moves up/floats/goes to the

  Lesson 88 surface.

# Number your paper from 1 through 19. Story Items

- 1. What did Darla realize about herself when she got to the surface of the water? Idea: that she was brave
- 2. What kind of job did Darla have at the end of the story?
- 3. Name 2 oceans where Darla and Julie have gone diving. Pacific, Atlantic
- 4. Darla told her students, "To understand scuba diving, you must understand water pressure". Water pressure

-	artner	twilight	confidence	especially
	aced	rapidly	conversation	overcame
	avoid	scuba diver	mass	reef
5. I have	that w	e can a long	. confi	dence, avoid,

scuba diver, partner, surfaced, reef
2. Ideas: scuba diving instructor; swimming Lesson 89 95
instructor



Number your paper from 1 through 36.

- 1. Coral is made up of the of tiny skeletons, animals
- 2. An underwater ridge that is covered with coral is called a coral reef
- 3. When you dive down 33 feet, you have times the pressure on you that you have at the surface.
- 4. When you dive down 66 feet, you have on you that you have at the surface. 3
- 5. What does the color of water tell you about the water? | idea: how deep the water is
- 6. In what ocean is the X? Atlantic (Ocean) 7. About how many miles is it from Florida to the X? 1000 (miles)



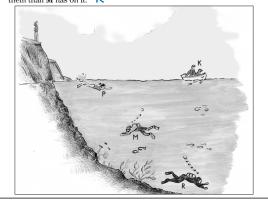
- 8. Do things look **light** or **dark** when you're 100 feet below the surface of the ocean? dark
- 9. There aren't as many plants down there because there isn't as much light

10. Name 3 things that great water pressure can do to you. Ideas (any 3): make mask press against face; cause ears to ring; cause trouble swallowing; make mouth dry

97

### **TEXTBOOK**

- 11. Write the letter of the body that has the **least** pressure on it.
- 12. Write the letter of the body that has the **most** pressure on it.
- 13. Write the letters of all the bodies that have more pressure on them than M has on it. R



- 14. If you move up too fast from very deep water, you may get the bends
- 15. What forms in your blood as you go up too fast? bubbles
- 16. When you go up very fast, is there more pressure or less pressure on your body?
- 17. When you open a bottle of soda pop, what happens to the pressure inside the bottle? It goes down.
- 18. What forms in the soda pop? bubbles
- 19. Name an arrow-shaped fish. barracuda
- 20. Write 2 facts about those fish. (Any 2 ideas:) They're very dangerous; their mouths are filled with sharp teeth; they grow to almost 2 meters long, etc.

### **TEXTBOOK**

- 24. Idea: The diver moves up/floats/goes to the surface.
  - 21. Is the water cooler at 100 feet down or at the surface? 100 feet down
  - 22. Is all the water at 100 feet down the same temperature? 110
  - 23. What do you fill a buoyancy device with? air
- 24. When it is filled up, what happens to the diver?
- Idea: The diver 25. When it is empty, what happens to the diver? 26. In what state is the Iditarod sled-dog race? Alaska

- 27. In which city does it begin? Anchorage 28. In which city does it end? Nome
- 29. The Iditarod is about miles from start to finish.
- 500 • 1100 • 1600
- 30. In most years the race takes about
- 10 days 2 weeks

Skill Items

For each item, write the underlined word or words from the sentences in the box.

- I have confidence that we can avoid a long conversation. The scuba diver and her partner surfaced near the reef.
- 31. What underlining tells what you do when you stay away from something? avoid
- 32. What underlining describes a person you do something with? partner
- 33. What underlining tells about someone who goes underwater with a mask and a tank of air? Scuba diver
- 34. What underlining describes people talking to each other about something? conversation
- 35. What underlining tells that you are sure about something? confidence
- 36. What underlining tells that people swam to the surface? **surfaced**

**WORKBOOK** 

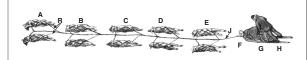
Name

A

1. Most sled-dog teams have an number of dogs. • even odd

2. For the Iditarod, a sled-dog team can't have more than 16

- 3. Which letter shows the swing dogs?
- Which letter shows the wheel dogs? E
- Which letter shows the lead dogs? A
- 6. Which letter shows where the musher is most of the time?
- 7. Which letter shows the gang line? \( \bullet \)
- 8. Which letter shows tug lines?



© SRA/McGraw-Hill. All rights reserved

Lesson 91

Use these words to answer items 9-11:

- wheel dogs lead dogs swing dogs
- 9. These dogs are responsible for freeing the sled when it gets stuck. <u>wheel dogs</u>
- 10. These dogs are very smart, and other dogs obey them. <u>lead dogs</u>
- 11. These dogs are very good followers, and they are smart. <u>swina doas</u>
- 17. Ideas: wheel dog; Alaskan husky Story Items
- 12. What town does Susie live near? Knik
- 13. In what state does she live? Alaska
- 14. What's the name of her dog? Denali
- 15. Susie's Uncle Chad was getting ready for the lditarod
- 16. Susie went to Chad's place on a <u>sled</u>
- 17. What kind of sled dog was Susie's dog?
- 18. Was he going to be part of Chad's regular sled-dog team? 10
- 19. How many times had Chad entered the Iditarod before? Once
- 20. How many times had he finished the race at Nome?  $\underline{\text{None}}$
- 21. What was his goal for the Iditarod this year?

#### <u>ldea: to finish</u>

- 22. This year's race would begin in a little more than 2
- 23. Chad drove the dogs and his sled to · Eagle Claw Valley
- Beaver River Valley
- 24. Chad wanted to find out what the team would do in really
  - cold weather rough country flat country
  - GO TO PART D IN YOUR TEXTBOOK.

Eagle River Valley

#### TEXTBOOK

they were all very strong, and they were all tough. They would need that toughness when they ran the Iditarod because then they would have to pull the sled all day longsometimes for more than fourteen hours a day.

Susie had gone on more than a hundred practice runs with Chad, and she knew every dog that he owned-all fifteen of them. Although she knew a lot about mushing, she was always amazed at how much more Chad knew about it. He had been in the Iditarod once before, but he didn't do very well. The sled broke down about 200 miles from Nome, and he didn't finish the race. His goal for this year was to finish. He wasn't thinking about being in first or second place, just finishing. Susie had once told him, "You know

so much about mushing, you could win first place!"

He had laughed and said, "Some mushers in that race know more about mushing than I'll ever learn. It's just an honor to be in the same race they are in.

The truck pulled off the road. Down below was Eagle River Valley. It looked very steep. Chad said. "We'll take the sled down into the valley and around the rocky parts."

Chad jumped out of the truck and told the dogs, "Everybody out of the truck." The dogs were glad to obey that command. Some of them looked like they were flying as they jumped out of the truck bed. Through the snow they raced, yapping and running in circles. Then Chad whistled, and they all crowded around him with their tails wagging.

#### Number your paper from 1 through 14. Review Items

- 1. In what state is the Iditarod sled-dog race? Alaska
- 2. In which city does it begin? Anchorage
- 3. In which city does it end? Nome
- 4. The Iditarod is about miles from start to finish.
- 1600 • 500 5. In most years, the race takes about
- 2 weeks • 10 days · a week 6. The person who drives a sled-dog team is called a **musher**
- 7. The drivers of the sled-dog teams command the dogs by using
  - - voices reins · steering wheels

#### TEXTBOOK

- 8. How does water pressure change as you move from deep water toward the surface? Idea: The pressure becomes less.
- 9. How does the light around you change as you move toward the surface? Idea: There is more light.
- 10. When the diver is feet underwater, the pressure is **two** times as great as it is on land.
- 11. When the diver is feet underwater, the pressure is **three** times as great as it is on land. 66
- 12. When the diver is feet underwater, the pressure is **four** times as great as it is on land. 100 times as great as it is on land.
- 13. Which letter shows Colorado? 14. Which letter shows Utah? D

### **WORKBOOK**

Name

103

- 1. What do sled dogs wear to protect their feet? **booties**
- 2. Underline the 4 items that tell what could happen to a sled dog's feet if they didn't have protection.
  - $\bullet \;$  snowballs between the pads
  - · slipping on hard snow
  - stiff legs • icicles on their ankles
- cuts from ice and frozen snow
- long claws
- cuts that do not heal well
- 3. The booties that Chad prefers are made of  ${\color{red} {\tt Canvas}}$
- 4. If booties are too tight, what could happen? Ideas: The dog's blood cannot circulate around the paws; the dog's ankles
- could swell up.
  If booties are too loose, what could happen? Idea: They could fall off.

#### Story Items

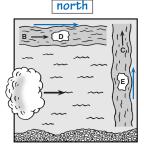
- 6. How many dogs did Chad plan to run in the Iditarod? 14
- 7. How many dogs did Chad start with at Eagle River Valley? 14
- 8. How many dogs did Susie keep on leashes? 2
- 9. Why did Chad put bags of dirt on the sled? Idea: because the dogs will have to pull a lot of weight in the race
- 10. The dogs wore something they didn't usually wear for practice runs. What was that? booties
- 11. Why did they wear them for this run? Idea: because today would be a tough run
- 12. What command tells sled dogs to turn left? haw

© SRA/McGraw-Hill. All rights reserved

- 13. What command tells them to turn right? gee
- 14. What command tells them to move straight ahead? mush
- 15. What did Chad do to test the dogs?
  - - $\bullet\,$  He did not tell the dogs what to do.

#### Review Items

- 16. Write north, south, east and west in the correct boxes.
- 17. In which direction is ocean current B moving? east
- 18. In which direction is ocean current C moving? **north**
- 19. Which direction is the wind coming from? West
- 20. Make an arrow above ice chunk  ${\bf D}$  to show the direction the current will move the chunk.
- Make an arrow next to ice chunk E to show the direction the current will move the chunk.



east

south

GO TO PART D IN YOUR TEXTBOOK.

Lesson 92

© SRA/McGraw-Hill. All rights reserve

### **TEXTBOOK**



Number your paper from 1 through 16. Review Items

- 1. What are clouds made of?
- 2. What kind of cloud does the picture show?
- 3. What happens to a drop of water at **B?** Idea: It freezes.
- 1. tiny drops of water
- 2. storm cloud



- 4. Which object went into the pile first? Shoe
- 5. Which object went into the pile last? rock
- 6. Which object went into the pile **earlier**, the cup or the pencil? **CUP**
- 7. Which object went into the pile **just after** the bone? CUP



108

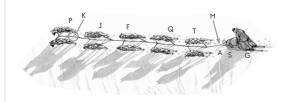
Lesson 92

### **TEXTBOOK**

west

Use these words to answer items 8—10:

- swing dogs wheel dogs lead dogs
- 8. These dogs are very smart, and other dogs obey them. lead dogs
- 9. These dogs are responsible for freeing the sled when it gets stuck. **wheel dogs**
- 10. These dogs are very good followers, and they are smart. Swing dogs
- 11. Which letter in the picture shows the wheel dogs?
- 12. Which letter shows the lead dogs?
- 13. Which letter shows the swing dogs?
- 14. Which letter shows where the musher is most of the time? G
- 15. Which letter shows the tug lines?
- 16. Which letter shows the gang line?



## **WORKBOOK**

Name

93

- A Story Items
- 1. To get the sled free, Chad first gave commands to the Wheel \_\_\_\_\_ d
- 2. When the sled tipped over, the dogs on leashes thought Chad was
  - awkward
- playing
- angry
- 3. Why didn't some of the dogs on the gang line run over to Chad? Idea: because the lead dogs did not move
- 4. During most of the practice, how many dogs were on the gang line?  $\frac{1}{2}$
- 5. At the end of the practice, how many dogs were on the gang line? 16
- 6. Which number of dogs was easier to handle? 14
- 7. Which number of dogs made a more powerful team? 16
- 8. When were the dogs going to be examined?

Ideas: tomorrow; the next day; in the morning

9. What happens if a dog does not pass the examination? ldea: It can't run in the lditarod.

on 92

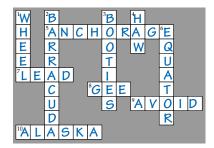
© SRA/McGraw-Hill. All rights reserved

Lesson 93

4

#### Skill Items

avoid	strain	barracuda	booties	shark
leash	gang	left	gee	lead
tug	swing	haw	wheel	mush
Alaska	Nome	equator	Anchorage	purpose



#### Across

- 5. The city where the Iditarod begins
- 7. The dogs on a sled-dog team are very smart, and other dogs obey them.
- 8. The command that tells sled dogs to turn right is
- 9. When you stay away from something, you that thing.
- 10. The Iditarod is held in the state of

#### Down

- 1. The dogs on a sled-dog team are responsible for freeing the sled when it gets stuck.
- 2. An arrow-shaped fish is a
- 3. Sled dogs wear to protect their feet.
- 4. The command that tells sled dogs to turn left is
- 6. The make-believe line around the middle of the earth is called the

GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserve

#### TEXTBOOK

Number your paper from 1 through 21.

**Skill Items** 

The veterinarian gave the dogs a thorough examination.

- 1. What word means checkup? examination
- 2. What word means animal doctor? veterinarian
- 3. What word means that nothing is overlooked? thorough

Write the word from the box that means the same thing as the underlined part of each sentence.

> harness partner deadly anchored boxing separated mobbed instructor

- 4. The teacher wrote a problem on the board. instructor
- 5. He has a great fear of snakes. deadly
- 6. The children were no longer together. **Separated**

#### **Review Items**

- 7. How long does it take Jupiter to spin around one time? (about) 10 hours
- 8. What's another name for hot, melted rock?
  - · On planet M you can jump 15 feet high.
  - On planet Q you can jump 5 feet high.
  - On planet G you can jump 12 feet high. • On planet X you can jump 20 feet high.
  - · On planet T you can jump 2 feet high.
- 9. Write the letter of the planet that has the most gravity.
- 10. Write the letter of the planet that has the least gravity. X

114

#### TEXTBOOK

- $11.\,$  When you teach an animal a simple trick, when do you reward the animal? Idea: when it does the trick
- 12. When don't you reward the animal? Idea: when the animal
- doesn't do the trick
- 13. Most sled-dog teams have an number of dogs.
  - odd
- even
- 14. For the Iditarod, a sled-dog team can't have more than dogs. dogs.
- 15. What do sled dogs wear to protect their feet? booties
- 16. Name 2 cities in Colorado. Greeley, Denver
- 17. Name one city in Utah. Salt Lake City
- 18. Write the letters of the 4 items that tell what could happen to a sled dog's feet if they didn't have protection. b, c, e, g
  - a. long claws
  - b. snowballs between the pads
  - c. cuts that do not heal well
  - d. stiff legs
  - e. slipping on hard snow
  - f. icicles on their ankles
  - g. cuts from ice and frozen snow
- 19. What command tells sled dogs to move straight ahead? mush
- 20. What command tells sled dogs to turn right? gee
- 21. What command tells sled dogs to turn left? haw

## **WORKBOOK**

Name

Story Items

- 1. At the beginning of today's story, who was late in the morning?
- 2. Susie was surprised to see which dog in the truck? Butch
- 3. Chad told Susie that he planned to run **Sixteen**
- 4. How did that make Susie feel? Ideas: excited; happy
- 5. Which 2 dogs would now be on the team?

#### **Butch and Denali**

- 6. What does a musher have to do with any dogs that are injured during the Iditarod? Idea: leave the dog at the next checkpoint
- 7. What did Chad plan to do with some dogs if he had trouble with a team of sixteen? Idea: leave some of them at the next

- checkpoint8. According to the rules, there must be at least how many dogs on the gang line at the end of the Iditarod? 5
- 9. The veterinarian found out that one dog had a problem. Which dog?
- 10. What was the problem? Idea: Her hip was weak.
- 11. What job does that dog have on Chad's team? Wheel dog

Lesson 93 115

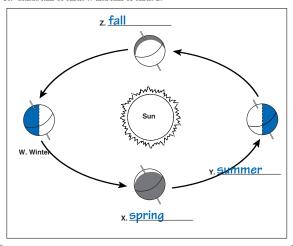
© SRA/McGraw-Hill. All rights reserved

#### Review Items

Write the missing numbers in the blanks				
0feet	surface pressure			
12. <b>33</b> feet	2 times surface pressure			
13. <u>66</u> feet	3 times surface pressure			
14.1 <u>00</u> feet	4 times surface pressure			

15. Write the missing seasons on the picture below.

16. Shade half of earth W and half of earth Y



GO TO PART C IN YOUR TEXTBOOK.

#### TEXTBOOK

- 1. scuba diver, partner, surfaced, reef
- Number your paper from 1 through 19. Skill Items

Use the words in the box to write complete sentences.

truck driver alarm exchanged thorough demanded replaced partner reef veterinarian scuba diver surfaced examination 1. The and her near the 2. The gave the dogs a veterinarian, thorough, examination

Write the word from the box that means the same thing as the underlined part of each sentence.



- 3. He solved his fear of storms. **OVERCAME**
- 4. Darla learned a new song for the party. tune
- 5. We're going to eat soon. shortly

#### **Review Items**

- 6. What happens if a sled dog doesn't pass the Iditarod's health examination? Idea: The dog cannot run in the race.
- 7. If booties on a sled dog are too tight, what could happen?
- 8. If booties are too loose, what could happen? Idea: They could fall off.
- 9. In what country are the states of Colorado and Utah? United States
- 10. Name the mountains you drive over to get from Colorado to Utah. Rocky Mountains
- 11. In which direction do you go to get from Colorado to Utah? West
- Ideas: The dog's blood cannot circulate around the paws; the dog's ankles could swell up.

Lesson 94

119

### **TEXTBOOK**

- 12. When you teach animals to work for new rewards, do you change the reward quickly or slowly? Slowly
- 13. When you teach an animal to work for a new reward, what kind of reward do you start with? Idea: one the animal will work for
- 14. Then what do you do to that reward? Idea: slowly change it
- 15. When do you stop changing the reward?
- 16. Name 3 things that great water pressure can do to you.
- 17. The more water the glass has, the the sound it makes.
  - lower higher
- 18. Write the letter of the glass that will make the lowest ring.
- 19. Write the letter of the glass that will make the highest ring.



- 15. Ideas: when it becomes the new reward; when the animal will work for the new reward
- 16. Ideas (any 3): make ears ring; make mouth dry; make mask press against face; have trouble swallowing

**WORKBOOK** 

Name 

> 1. The rules for the Iditarod require the musher to have certain things. Underline those things.

- · enough food for a day
- firewood
- · an ax
- · enough food for a week · extra shoes
- booties • a tent
- a good sleeping bag
- · snowshoes extra dogs
- 2. How much food does each dog need every day?
  - 3 pounds 2 pounds
- 3. The sled must have room to hold
  - · another musher
    - an injured dog
- · a spare sled

• 1 pound

#### Story Items

- 4. What did Chad decide to do with Chugger? Idea: keep her on
- 5. He gave some reasons for his decision.  ${\bf Underline}~2~{\bf reasons}.$  the team
  - She had always been the fastest runner.
  - She had never had any hip problems.
  - She was frequently sick
  - Neither of her parents had hip problems.
  - She was only three years old
- 6. What's the name of the woman whose picture was on Susie's wall?

#### Susan Butcher

- 7. How many times did she enter the Iditarod? 17
- 8. How many times did she finish in first place? 4
- 9. On March 15, what was the weather like when the race began?

Ideas: miserable; the temperature was near freezing and thick, wet snow was falling.

© SRA/McGraw-Hill. All rights reserved

Lesson 95

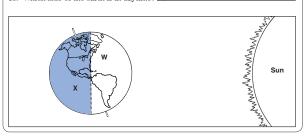
45

- 10. How many mushers start the race at the same time?
  - 2 • 10
- 11. How much time passes before the next musher starts? 2 minutes
- 12. What number was Chad? 61
- 13. The musher in front of Chad was from Sweden
- 14. When mushers are on the trail, how much help can they get from someone else? Idea: none

#### Review Items

Look at the picture below.

- 15. Shade the part of the earth where it is nighttime.
- 16. Which side of the earth is closer to the sun,  $\mathbf{W}$  or  $\mathbf{X}$ ?
- 17. Which side of the earth is in nighttime? X
- 18. Which side of the earth is in daytime? W

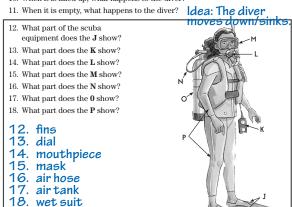


GO TO PART D IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

### TEXTBOOK

- 6. Is the water cooler at 100 feet down or at the surface? 100 feet down
- 7. Is all the water at 100 feet down the same temperature?
- 8. Name 2 acts of bravery.
- 9. What do you fill a buoyancy device with? air
- 10. When it is filled up, what happens to the diver?



- Ideas (any 2): saving someone from a burning building; climbing a mountain;
- 10. Idea: The diver moves up/floats/goes to the surface.

Lesson 95

#### TEXTBOOK

# 1. Idea: carry the dog in the sled to the next checkpoint said, "Now there's a team with some Terry. Good luck." Terry tipp

real power. Think of how well they're going to do when Mr. Martin unties them from his truck." Everybody laughed.

It was now after 11 A.M., but Chad hadn't started yet. He was the 61st musher in the race. Just ahead of him was a musher from Sweden. Behind Chad was a musher from Michigan. That musher had run the Iditarod six times.

Chad and Susie were busy getting ready. They were putting booties on the dogs' feet. Chad brought along more than a thousand booties. He figured that he would change booties about every two days and more often if the snow was hard and frozen.

"Number 59" the announcer called from the start line, "Terry North from Colorado. It's your turn. Terry. Good luck." Terry tipped his hat and shouted, "Mush," so loudly that some of the dogs that were not in his team tried to run. One of them was Hoover, a dog in Chad's team.

Chad said, "Take it easy, Hoover. It won't be long now."

Chad and Susie checked the supplies one last time. They had already done it three times earlier, and if something was missing now, there wasn't much they could do about it because of the most important rule of the Iditarod. Once the race starts, all mushers are on their own. They can't try to get help from anybody who is not in the race. They can't use a phone, a radio or any other device that would allow others to help them. When they are on the trail, they must do the best they can without help from anybody.

# Number your paper from 1 through 25.

#### **Review Items**

- 1. During the Iditarod, what does a musher have to do with any dogs that are injured?
- 2. According to the Iditarod rules, there must be at least how many dogs on the gang line at the end of the race? (at least) 5
- 3. If you're underwater 100 feet deep, the pressure is much greater than it is on land. How many times greater is it? 4 times
- 4. When divers are that deep, how long should they take to return to the surface of the water? at least/about 2 minutes
- 5. What may happen to the divers if they go up faster than that ldea: They may get the bends.

### **TEXTBOOK**

Write the name of each kind of coral.





19. staghorn cora

20. brain coral



21. red coral

- 22. Name 2 things you could give a dog to reward it.
- 23. What color is lava when it's very hot?
  - brown orange
- 24. What color is lava after it cools a little bit? brown 25. What color is lava after it's completely cooled? gray
- 22. (Any 2:) a bone, a dog treat, a pat on the head, etc.

126 Lesson 95

97

Name .

## Idea: because race officials must check that

- 1. Why are checkpoints called checkpoints? all mushers pass through each checkpoint
- 2. Name 3 things a musher does at checkpoints.

(Any 3:) rest their teams; make repairs; feed their dogs; drop off injured or sick dogs; get food; have a veterinarian check all the dogs

- 3. How does food get to the checkpoints? <u>Idea: Airplanes deliver it.</u>
- 4. About how far apart are the checkpoints? 50 miles
- 5. About how many checkpoints are there between Anchorage and Nome?
- Story Items
- Ideas: The race was too dangerous; 6. Just before Chad left, Susie became worried. What worried her? something could happen to Chad and Denali.
- 7. Was Chad calm or nervous? Mervous
- What was the name of the woman who left just before Chad? Siri Carlson
- 9. How do mushers get water for their dogs? Ideas: heat snow to melt it; haul water from a stream
- 10. What do mushers often use to make beds for their dogs? Idea: branches from evergreen trees

© SRA/McGraw-Hill. All rights reserved

47

### **WORKBOOK**

- 11. Underline the items that tell what it was like on the third day of the race.
  - · frozen lakes
  - 10 degrees below zero · rough country

  - blowing snow soft snow
  - · hard, icy snow
- flat trail
- blasting wind · mountains
- warm sunny
- · 10 degrees above zero
- 12. What was the name of the pass Chad was going through?

#### Rainy Pass

- 13. Why did he think that name was funny? Idea: because it's <u>always frozen and cold</u>
- 14. What's the name of the first woman to win the Iditarod? Libby Riddles
- 15. In what year did she win it? 1985
- 16. Where were she and most of the mushers when the race was stopped the first time? Rainy Pass
- 17. Why did Susie write a different letter after she heard the TV report?
- 18. In the letter she didn't send, what did she write about? \_ Denali's birthday
- 19. What did the race officials think they would have to do if the bad weather continued? Idea: send out search parties for the missing teams

GO TO PART D IN YOUR TEXTBOOK.

17. Ideas: because the TV report made her worry about Chad's safety; because Denali's birthday didn't seem very important anymore

#### **TEXTBOOK**

part of the letter she was writing

Do you know that in two days, it will be Denali's birthday? He'll be three years old.

Suddenly, the TV program stopped and an announcer said, "Here's a special report on the Iditarod from Rainy Pass," The picture on the TV showed snow blowing and a reporter who was velling over the wind. He told about the high winds at Rainy Pass. He said, "The winds are blowing so hard that some of the mushers are lost because they can't see the trail. The race officials may have to send out search parties if some of the teams don't show up at the checkpoint pretty soon.

Susie didn't finish the letter she had started. Denali's birthday didn't seem very important anymore. Instead, she wrote another letter.

Dear Uncle Chad,

The weather report from Rainy Pass is scary. I hope you are not one of those mushers who got lost. I hope they found all the mushers who got lost. And I hope their dogs are okay. I hope that your team is doing well. With love,

Susie

What she really wanted to say in her letter was, "Oh please make sure that Denali is all right. Oh please don't get lost. And if you do get lost, please find your way to the next checkpoint.

# Number your paper from 1 through 19.

- 1. The rules for the Iditarod require each musher to have certain things. Write the letters of those things. a, b, e, g, i
  - a. an ax
- f. extra shoes
- b. snowshoes
- g. enough food for a day
- c. a tent
- h. enough food for a week

- - d. firewood i. booties
  - j. extra dogs e. a good sleeping bag

Lesson 96

## **TEXTBOOK**

- 2. During the Iditarod, how much food does each dog need every day?
  - 1 pound 2 pounds • 3 pounds
- 3. Each sled in the Iditarod must have room to hold
  - · another musher · an injured dog
- 4. Name the woman who finished the Iditarod sixteen times. Susan Butcher
- 5. How many times did she **enter** the Iditarod? 17
- 6. How many times did she finish in first place? 4
- 7. How many mushers start the Iditarod at the same time?
- 8. How much time passes before the next musher starts? 2 minutes
- 9. When Iditarod mushers are on the trail, how much help can they get from someone else? none
- 10. Is the water cooler at 100 feet down or at the surface? 100 feet down
- 11. Is all the water at 100 feet down the same temperature?
- 12. What do you fill a buoyancy device with?
- 13. When it is filled up, what happens to the diver?
- 14. When it is empty, what happens to the diver?
- 15. If you move up too fast from very deep water, you may get the bends
- 16. What forms in your blood as you go up too fast? bubbles
- 17. When you go up very fast, is there more pressure or less pressure on your body?
- 18. When you're training an animal, what do you do each time the animal does the trick? Idea: give the animal a reward
- 19. What do you do if the animal does not do the trick? Idea: don't give the animal a reward
- 13. Idea: The diver moves up/floats/goes to the surface.
- Idea: The diver moves down/sinks.

Lesson 96

Name\_

#### Story Items

- 1. Would the snow be deeper on the trail or off the trail? off the trail
- 2. Why? Idea: No one had been over the snow recently.
- 3. If Chad had stayed on the trail, he would have gone in which direction?
- 4. How did he figure out which direction he was going? Idea: He used his compass.
- 5. Did he turn **left** or **right** in order to go in the correct direction? **left**
- 6. When the wind finally died down, how much daylight was there? Idea: almost none
- 7. What could Chad see? Ideas: the mountains; lights from the lodge
- 8. How did the dogs know they were near the checkpoint?
- 9. How did they act? Ideas: happy; they seemed to pep up.
- 10. When Chad arrived at the lodge, how many mushers were missing? 2
- 11. What was the name of one of those mushers? Siri Carlson
- 12. How did Chad show the officials the route he had taken? Idea: He went with them on snowmobiles
- 13. When did Chad see one of the missing mushers? the next mornina
- 8. Idea: They could see the lights/smell the food coming from the checkpoints.

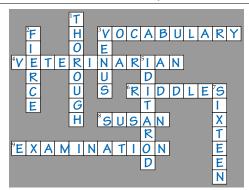
© SRA/McGraw-Hill. All rights reserved

Lesson 97

### **WORKBOOK**

#### Skill Items

Esther	Mars	Pluto	Venus	thorough	complete	veterinarian
vocabulary	Riddles	fierce	doctor	Susan	test	examination
Butcher	Iditarod	sixteen	fifteen	Libby	cruel	



#### Across

- 3. All the words a person knows is called the person's
- 4. Another word for animal doctor is
- 6. The last name of the first woman to win the Iditarod is
- 8. The first name of the woman who finished the Iditarod sixteen times
- Another word for checkup is

Lesson 97

#### Down

- 1. Something is if it doesn't overlook anything.
- 2. Another word for very wild is
- 3. The planet that's between Mercury and Earth is
- 5. A great sled-dog race that's held in Alaska every year is called the
- 7. How many dogs are allowed on a

team in the Iditarod?

GO TO PART C IN YOUR TEXTBOOK. SRA/McGraw-Hill. All rights rese

## **TEXTBOOK**



Number your paper from 1 through 16.

Skill Items

Visibility was miserable in the fierce blizzard.

- 1. What word means terrible? miserable
- 2. What word refers to how well you can see things? **visibility**
- 3. What word means very wild? fierce
- 4. What word names a snowstorm that is windy and very cold? blizzard

#### **TEXTBOOK**

5. (Any 3:) rest their teams; make repairs; feed their dogs; drop off injured or sick dogs; get food; etc.

- 5. Name 3 things an Iditarod musher does at checkpoints.
- 6. Why are checkpoints called checkpoints?
- 7. How does food get to the checkpoints? Idea: Airplanes deliver it. 8. About how far apart are the checkpoints? 50 miles
- 9. About how many checkpoints are there between Anchorage and Nome? 24
- 10. During the Iditarod, how do mushers get water for their dogs?
- 11. What do mushers usually use to make beds for their dogs?

  branches from evergreen trees

  12. What's the name of the first woman to win the Iditarod?

  Libby Riddles
- 13. In what year did she win it? 1985

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence.

- · jumping up and leaning backward
- · jumping up and turning upside down
- · jumping up in the air
- 14. At first, you would reward the dog for jumping up in the air
- 15. Later you would reward the dog for
- 16. Later you would reward the dog for
- 6. Idea: because race officials check to make sure that all the mushers pass through each checkpoint
- 10. Ideas: heat snow to melt it; haul water from a stream
- 15. jumping up and leaning backward
- 16. jumping up and turning upside down

136 Lesson 97

98

Name .



The rules of the Iditarod state that every musher must rest for 24
 hours at one checkpoint and must rest for eight hours at two other checkpoints.

2. This rule was put in to protect the

• mushers • dogs • race officials

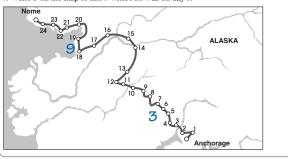
4. During the first running of the Iditarod, how many dogs died during the race? • 10 • 20 • 30

5. During more recent years, how many dogs die during each race?

• 5 to 8 • 8 to 10 • <u>2 to 3</u>

#### Story Items

6. Write 3 on the map to show where Chad was on day 3.7. Write 9 on the map to show where he was on day 9.



51

### **WORKBOOK**

8. Something was the same on day 3 of the race and day 9 of the race. What was that? Ideas: Chad was lost; the weather was very bad.

9. What happened as the sled was going over a thick crust of frozen snow? ldea: The sled broke through the ice/fell in the water.

10. Which dog let out a yelp? Chugger

11. Chad was in the water up to his chest

12. Name the 2 dogs that had to do most of the pulling to get the sled out of the water. **Denali and Butch** 

13. What did Chad do with the tarp? Idea: made a tent

14. What did Chad do first, take care of the injured dog or take care of himself?

took care of himself

15. How much time did he have to get dry and warm? **Idea: a few minutes** 

16. What would have happened if he took too much time? Idea: He would freeze

17. Name 3 things he did inside the tent that he built.

(Any 3:) started a fire; took off his wet clothes; put on dry clothes; brought Chugger into the tent

18. What did Chad do to find the trail? Idea: climbed a hill

19. Whose sled did he see? Siri Carlson's

20. When he harnessed the dogs, which 2 dogs were the wheel dogs?

Denali and Butch

21. Which dog walked behind the sled? Buck

22. Where was Chugger? in the sled

nere was emagger.

GO TO PART D IN YOUR TEXTBOOK.

esson 98 © SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

dogs. Chugger could not walk on all four legs. Her back left leg did not work because her hip had failed.

Chad took Chugger off the gang line and carried her into the tent. He dried her off and then put a blanket around her. She licked his face as he was tucking her in. Then he took Buck, the other regular wheel dog, off the gang line. Buck would walk behind the sled until the team reached the next checkpoint. Denali and Butch would be the wheel dogs for the rest of the race.

Chad stayed at the grove for three hours, until the weather cleared. Then he climbed a nearby hill so he could look in all directions for the trail. He didn't have much hope of seeing it, but he thought it was worth trying. To his surprise, he saw a dog sled as soon as he got to the top of the hill. It was a few hundred yards to the east. When he took a closer look, he said, "I know who that is." It was Siri Carlson. Chad whistled and waved.

She waved back and shouted something, but he couldn't hear what she said. He signaled that he would catch up with her. Then he ran back to his team and hitched them to the gang line. He put Chugger in the sled. When Chad told the team to mush, Chugger tried to stand up. Chad patted her and said, "Not you, Chugger. You just take it easy." The team went east over the hills until it reached the trail. Chad could see Siri's team about half a mile ahead of him.

### **TEXTBOOK**

#### **Review Items**

3. During the Iditarod, is the snow deeper on the trail or off the trail? On the trail

4. Why? Idea: No one had been over the snow recently.

5. How does water pressure change as you move from deep in the water toward the surface?

6. How does the light around you change as you move toward the surface? Idea: It gets brighter.

7. In what state is the Iditarod sled-dog race? Alaska

8. In which city does it begin? **Anchorage** 

9. In which city does it end? Nome

10. The Iditarod is about miles from start to finish. • 1600 • 500 • 110011. In most years, the race takes about miles. • 10 days • 2 weeks • a week

12. Name an arrow-shaped fish. barracuda

13. Write 2 facts about those fish.

14. What command tells sled dogs to turn right? gee

15. What command tells sled dogs to move straight ahead? mush

16. What command tells sled dogs to turn left? haw

5. Idea: It goes down/pushes with less force.

13. Ideas (any 2): They're very dangerous; their mouths are filled with sharp teeth; they grow almost 2 meters long; etc.

142 Lesson 9

Number your paper from 1 through 16. Skill Items

veterinarian, thorough, examination
 visibility, miserable, fierce, blizzard

Lesson 98 141

Name					
$\Lambda$	Story Items				

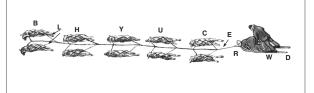
- 1. Where did Chad leave Chugger before going on to finish the race? Idea: at a checkpoint
- 2. How many dogs were now on the gang line? 15
- 3. Which dog did not have a partner? Buck
- Chad finished the race in 35 th place.
- 5. Siri Carlson finished in 34 th place.
- 6. Did Chad meet his main goal for this race? YES
- 7. What was that goal? Idea: to finish the race
- 8. How did the mushers and their teams get back to Anchorage from Nome? Idea: by plane
- 9. Who met Chad at the airport? Susie
- 10. Susie had a lot of questions. Most of them were about Denali
- 11. What had the vet told her the day before about Chugger? \_
- 12. What did Chad say he wanted to do with Denali for the next Iditarod? <u>Idea: make him a regular wheel dog</u>
- 13. Who did Chad plan to practice with during the summer? Siri Carlson
- 14. Denali ran in six more Iditarods. Who was the musher for five of them? Chad
- 15. Who was the other musher? Susie
- 11. Ideas: There wasn't much the vet could do for Chugger's hip; she would probably be ok as long as she didn't pull sleds or do heavy work.

Lesson 99

### **WORKBOOK**

#### Review Items

- Most sled-dog teams have an number of dogs. 17. For the Iditarod, a sled-dog team can't have more than 16
- 18. Which letter in the picture shows the wheel dogs? C
- 19. Which letter shows the swing dogs?
- 20. Which letter shows the lead dogs? **B**
- 21. Which letter shows where the musher is most of the time? W
- 22. Which letter shows tug lines? L
- 23. Which letter shows the gang line?



Use these words to answer items 24-26:

- swing dogs
- wheel dogs
- · lead dogs
- 24. These dogs are very good followers, and they are smart. **Swing dogs**
- 25. These dogs are responsible for freeing the sled when it gets stuck. wheel dogs
- 26. These dogs are very smart, and other dogs obey them. lead dogs

GO TO PART C IN YOUR TEXTBOOK.

SRA/McGraw-Hill. All rights reserv

#### TEXTBOOK

11. Ideas: The dog's blood cannot circulate around the paws; the dog's ankles could swell up.

Number your paper from 1 through 13.

Skill Items Write the word from the box that means the same thing as the underlined part of each sentence.

> sheltered darted plunged trailed victory

- 1. The fish moved very fast in the fish tank. darted
- 2. We ran down the hill quickly. rapidly
- 3. The kittens followed their mother across the yard. trailed

#### Review Items

- 4. The rules of the Iditarod state that every musher must rest for hours at one checkpoint and must rest for two other checkpoints. 24/8
- 5. This rule was put in to protect the race officials
- 6. In what year was the first Iditarod? 1973
- During the first running of the Iditarod, how many dogs died during the race?
- 8. During more recent years, how many dogs die during each race? 2 to 3
- 9. What do sled dogs wear to protect their feet?
- 10. Write the letters of the 4 items that tell what could happen to a sled dog's feet if they didn't have protection. b, c, e, q
- a. stiff legs
- e. slipping on hard snow f icicles on their ankles
- b. snowballs between the pads c. cuts from ice and frozen snow  $\,\,$  g. cuts that do not heal well
- d. long claws
- 11. If booties on a sled dog are too tight, what could happen?
- 12. If booties are too loose, what could happen? Idea: The booties
- 13. What happens if a sled dog doesn't pass the Iditarod's health examination? Idea: It cannot run in the race.

# TEXTBOOK





Number your paper from 1 through 34.

- 1. Most sled-dog teams have an number of dogs. odd
- 2. For the Iditarod, a sled-dog team can't have more than dogs. 16

Use these words to answer items 3-5:

- swing dogs
- wheel dogs
- · lead dogs
- 3. These dogs are very good followers, and they are smart. Swing dogs 4. These dogs are responsible for freeing the sled when it gets
- stuck. wheel dogs 5. These dogs are very smart, and other dogs obey them. lead dogs
- 6. If booties on a sled dog are too tight, what could happen?
  7. If booties are too loose, what could happen? | Idea: The booties could fall off.
  8. What command tells sled dogs to turn right? | gee
- What command tells sled dogs to move straight ahead? mush
- 10. What command tells sled dogs to turn left? haw
- 11. What happens if a sled dog doesn't pass the Iditarod's health examination? Idea: The dog cannot run in the race.
- 12. During the Iditarod, what does a musher have to do with any dogs that are injured?
- 13. According to the Iditarod rules, there must be at least how many dogs on the gang line at the end of the race? 5
- 6. Ideas: The dog's blood cannot circulate around the paws; the dog's ankles could swell up.12. Idea: leave them at the checkpoint
- Lesson 100

- 14. The rules for the Iditarod require each musher to have certain things. Write the letters of those things. b, c, d, e, i
  - a. firewood
  - b. snowshoes
  - c. enough food for a day
  - d. an ax
  - e. a good sleeping bag
  - f. extra shoes
  - g. a tent
  - h. extra dogs
  - i. booties
  - j. enough food for a week
- 15. During the Iditarod, how much food does each dog need every day?
  - ullet 3 pounds ullet 1 pound ullet 2 pounds
- 16. Each sled in the Iditarod must have room to hold
  - ullet a spare sled ullet an injured dog
- 17. Name the woman who finished the Iditarod sixteen times. 18. How many times did she **enter** the Iditarod? 17
- 19. How many times did she finish in first place? 4
- 20. When Iditarod mushers are on the trail, how much help can they get from someone else? none
- 21. Name 3 things an Iditarod musher does at checkpoints.
- 22. Why are checkpoints called checkpoints?
- 23. How does food get to the checkpoints? Idea: Airplanes deliver it.
- 24. About how far apart are the checkpoints? 50 miles
- 25. About how many checkpoints are there between Anchorage and
- 26. What's the name of the first woman to win the Iditarod? Libby Riddles 27. In what year did she win it? 1985
- ldeas (any 3); rest their teams; make repairs; feed their dogs; drop off injured or sick dogs; get food; have a veterinarlan check the dogs ldea: because race officials check that all Lesson 100 the mushers pass through each checkpoint 149

#### TEXTBOOK

- 28. The rules of the Iditarod state that every musher must rest for hours at one checkpoint and must rest for hours at two other checkpoints.  $\frac{24/8}{}$
- 29. This rule was put in to protect the
  - · race officials mushers · dogs

#### Skill Items

For each item, write the underlined word or words from the sentences in the box.

> The veterinarian gave the dogs a thorough examination. Visibility was miserable in the fierce blizzard.

- 30. What underlining means very wild? fierce
- 31. What underlining refers to how well you can see things? visibility
- 32. What underlining means animal doctor? veterinarian
- 33. What underlining means that nothing is overlooked?  $\begin{tabular}{ll} thorough \end{tabular}$
- 34. What underlining means terrible? miserable

END OF TEST 10

#### SPECIAL PROJECT

#### Things to be found:

- A photograph of the finish line in Nome.
- A map that shows the Iditarod trail and all the checkpoints.
- A magazine article that tells something about the Iditarod.
- · A chart that shows how long it took all the mushers in the last Iditarod to finish the race.
- · An article that explains who the dog Balto was and how he was related to the Iditarod.

Lesson 100/Special Project 150

### **WORKBOOK**

Name.

Butcher

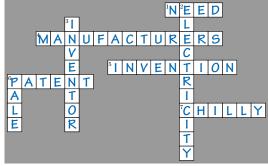
#### Story Items

- 1. In which month does this story take place? December
- 2. Was Al happy about the test he had taken in school? 100
- 3. Did Al like school very much? 10
- 4. What did the sign in the store window say? Go anywhere. See anything.
- 5. Who owned the store? (A tall) old man
- 6. Does Al need money to pay for the trips the old man will take him on? no
- 7. What does Al have to do to pay for his trips? <u>ldea: pass a test</u>
- 8. For Al's first trip, he wanted to go in a **speed/race car** because he liked to go fast
- 9. What will happen if Al passes a test the old man gives him? Idea: He'll get to go on another trip.
- 10. What will happen if Al doesn't pass a test? Idea: He won't get to go on another trip.

### **WORKBOOK**

Skill Items

chilly sick inventor problem electricity need invent shopkeeper pale patent manufacturers invention warm



- 1. When you invent something, you start with a
- 4. Businesses that make things are called
- 5. The object that an inventor makes is called an
- 6. An inventor gets a to protect an invention
- Another word for sort of cold is

- 2. Leonard's invention ran on
- 3. The person who makes an object for the first time is called an
- 6. When people look whiter than they usually look, the people look .

GO TO PART C IN YOUR TEXTBOOK.

Lesson 101 C SRA/McGraw-Hill. All rights reserved

SRA/McGraw-Hill. All rights reserved.

Lesson 101

Number your paper from 1 through 20.

Write the word from the box that means the same thing as the underlined part of each sentence.

rocket whether incredible suppose husiness device however

- 1. She made a machine for making snowballs. device
- 2. They decided if they would have a party. Whether
- 3. He saw an amazing animal. incredible

#### **Review Items**

- 4. What's another name for hot, melted rock?
- 5. During the Iditarod, how do mushers get water for their dogs?
- 6. What do mushers usually use to make beds for their dogs? Idea:
- branches from evergreen trees 7. During the Iditarod, is the snow deeper on the trail or off the trail? on the trail
- 8. Why? Idea: No one has been over the snow recently.
- 9. In what year was the first Iditarod? 1973
- During the first running of the Iditarod, how many dogs died during the race?
- 12. Which is bigger, Alaska or Japan? Alaska
- 13. Is Japan a state or a country? Country
- 14. How many people live in Japan?

Lesson 101

- 127 127 million
- 5. Ideas: heat snow to melt it: haul water from a stream

#### TEXTBOOK

15. Write the letters of 3 types of products that are used in the United States and manufactured in Japan. a, c, f

- a. TVs
- b. books
- c. cars
- d. rugs
- e. furniture f. CD players
- g. Mr. Light Saver
- 16. The person who drives a sled-dog team is called a **musher**
- 17. The drivers of the sled-dog teams command the dogs by using  $\frac{1}{2}$ their
  - reins steering wheels
- 18. How many mushers start the Iditarod at the same time?
- 19. How much time passes before the next musher starts? 2 minutes
- 20. The s are the coldest places on the earth and the is the hottest place on the earth. pole, equator

Lesson 101

155

### **WORKBOOK**

154

Name

A



- 1. How far does light travel in one second?
  - 86 miles · 186 thousand miles
  - 186 miles
- 2. What else travels as fast as light? Idea: nothing
- 3. How long does it take light to travel from the sun to Earth? 8 minutes

#### Story Items

4. What does Al have to do to pay for his trips?

<u>Idea: pass a test</u>

5. Name the first vehicle Al and the old man rode in.

#### <u>ldea: (red) race car</u>

- 6. What was the fastest speed they went in that vehicle?
  - 500 miles per hour
  - 130 miles per hour
  - 200 miles per hour
- 7. Why did Al and the old man have to shout in the racing car?

Idea: The car was very noisy.

8. Name the second vehicle Al and the old man rode in. jet (plane)

# **WORKBOOK**

9. How fast did they go in that vehicle?

<u>500 miles per hour</u>

10. If the speedometer needle on the red racer is pointing to 70, how fast is the vehicle going?

<u>70 miles per hour</u>

11. How far will that vehicle go in one hour? 70 miles

#### **Review Items**

12. Write the names of the 9 planets, starting with the planet that's closest to the

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

13. During the Iditarod, what does a musher have to do with any dogs that are

#### <u>Idea: take them to the next checkpoint</u>

- 14. According to the Iditarod rules, there must be at least how many dogs on the gang line at the end of the race? 5
- 15. During the Iditarod, how much food does each dog need every day?
  - 1 pound
- 2 pounds
- · 3 pounds
- 16. Each sled in the Iditarod must have room to hold
  - a spare sled
     another musher
- · an injured dog

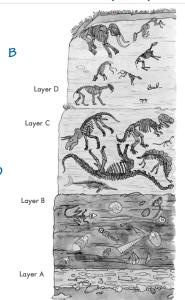
GO TO PART D IN YOUR TEXTBOOK.

# Number your paper from 1 through 22.

#### Review Items

- 1. Name the largest planet in the solar system. Jupiter
- 2. If something weighed 100 pounds on Earth, how many pounds would it weigh on our moon?
  - 117 pounds 14 pounds • 17 pounds
- 3. How long does it take Jupiter to spin around one time? (about) 10 hours
- 4. Write the letter of the layer that went into the pile first. A
- 5. Which layer went into the pile **earlier**, B or C?
- 6. Write the letter of the layer where we would find the skeletons of humans.
- 7 Write the letter of the layer where we find the skeletons of dinosaurs.
- 8. Write the letter of the Write the remains a layer where we find the skeletons of horses.
- 9. Write the letter of the layer we live on.
- 10. What's the name of

layer C?



103

#### TEXTBOOK

- 11. What color is lava when it's very hot? orange
- 12. What color is lava after it cools a little bit? **brown**
- 13. What color is lava after it's completely cooled? gray
  - orange gray brown
- 14. The solid arrows show how many times people went into the room. How many people went into the room?
- 15. The dotted arrows show how many times people left the room. How many people left the room? 2
- 16. Are the lights on in the room? Yes
- 17. How many more people would have to leave the room before the lights go off? two



- 18. Name the woman who finished the Iditarod sixteen times.
- Susan Butcher
- 19. How many times did she **enter** the Iditarod? 17
- 20. How many times did she finish in first place? 4
- 21. When Iditarod mushers are on the trail, how much help can they get from someone else? none
- 22. The rules for the Iditarod require each musher to have certain things. Write the letters of those things. a, d, e, f, g
- a. a good sleeping bag
- b. firewood
- c. extra dogs d. booties
- e. an ax
- f. enough food for a day
- g. snowshoes
- h. extra shoes
- i. a tent
- j. enough food for a week

Lesson 102

### **WORKBOOK**

Name \_

#### Story Items

- $1. \ \ Why doesn't it feel like you're moving when you're speeding through space?$ Idea: There is no air (rushing by you).
- 2. What is a cloud of stars called? galaxy
- 3. What will happen if Al passes the old man's test? Idea: Al can go on another trip.
- 4. What will happen if Al doesn't pass the test? Idea: Al won't go on another trip
- Name the 3 vehicles Al and the old man rode in. ldea: race car, jet (plane), rocket
- 6. How long does it take sound to travel one mile? 5 seconds
- 7. How long did it take the jet plane to travel one mile?
  - less than 5 seconds 5 seconds
  - · more than 5 seconds
- 8. Why was it so quiet inside the jet plane?
- 9. How fast did they go in the last vehicle they were in?
- $\bullet$  9 thousand miles per hour  $\bullet$  9 thousand miles  $\bullet$  4 thousand miles per hour

Look at the names of objects below.

- Put a 1 next to the thing that travels the slowest.
- 11. Put a 2 next to the thing that travels the next slowest.
- 12. Number the rest of the objects to show how fast they travel.

8. Ideas: The sound from the engine couldn't catch up to them; the plane was going faster than sound.

© SRA/McGraw-Hill. All rights reserved

Lesson 103

Lesson 103

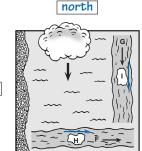
SRA/McGraw-Hill. All rights reser

# **WORKBOOK**

west

#### Review Items

- 13. Write north, south, east and west in the correct boxes.
- 14. In which direction is ocean current F moving? east
- 15. In which direction is ocean current G moving? South
- 16. Which direction is the wind coming from? **north**
- 17. Make an arrow above ice chunk H to show the direction the current will move the ice chunk.
- 18. Make an arrow next to ice chunk I to show the direction the current will move the ice chunk



east

south

GO TO PART C IN YOUR TEXTBOOK.

Number your paper from 1 through 27.

Write the word from the box that means the same thing as the underlined part of each sentence.

happy	attached	prepared	thick
level	approached	comfortable	clever

- 1. The road was flat for many miles.
- 2. They got ready for the big party. prepared
- 3. The truck moved toward the cliff. approached

#### **Review Items**

- 4. In what ocean is the X? Atlantic (Ocean)
- 5. About how many miles is it from Florida to the X? 1,000 (miles)



- 6. A person weighs 400 pounds on planet M and 200 pounds on planet B. Which planet has stronger gravity?
- 7. Which planets have stronger gravities, the bigger planets or the smaller planets? bigger

164 Lesson 103

# **WORKBOOK**

Story Items

Name\_

- Al had trouble going to sleep because
  - · he wasn't tired.
  - he kept thinking about his trip.
  - · he was hungry.
- 2. Why did Al leave for school early?
  - to read the newspaper
  - to read his science book
  - · to talk to his teacher
- 3. Why was Al's teacher surprised when he raised his hand in school? Ideas: Al never raises his hand/answers.
- 4. It is so quiet in a jet plane that is going 900 miles per hour because the plane is moving faster than sound (of the engines)
- 5. What was the name of the street the store was on? Anywhere Street
- 6. What question did the old man ask Al?

What does it mean to go fast?

- 7. Why did the old man say he would take Al on another trip? Idea: He'd passed the test.
- 8. What did Al want to learn about on his next trip? **matter**
- 9. Al's teacher had told the class that all things are made of matter
- 10. How many forms of matter are there? 3

© SRA/McGraw-Hill. All rights reserved Lesson 104 61

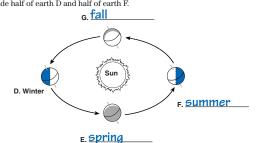
#### TEXTBOOK

- (Any 2:) saving someone from a burning building; climbing a mountain, etc.
  - 8. How many miles does light travel in one second?
  - 186 miles 186 thousand miles 86 thousand miles
  - 9. What else travels as fast as light? Idea: nothing
- 10. How long does it take light to travel from the sun to Earth?
  - 5 seconds 8 seconds 8 minutes
- 11. Name 2 acts of bravery.
- 11. What does the color of water tell you about the water? Idea: how deep the water is
- 13. When you open a bottle of soda pop, what happens to the pressure inside the bottle? Idea: It goes down.
- 14. What forms in the soda pop? bubbles
- 15. Do things look **light** or **dark** when you're 100 feet below the surface of the ocean? dark
- 16. There aren't as many plants down there because there isn't as much light
- 17. Name 3 things that great water pressure can do to you.
- 18. In what state is the Iditarod sled-dog race? Alaska
- 19. In which city does it begin? Anchorage
- 20. In which city does it end? Nome
- 21. The Iditarod is about miles from start to finish.
- 1600 • 500 • 1100
- 22. In most years, the race takes about
  - a week • 10 days • 2 weeks
- 23. How does water pressure change as you move from deep in the water toward the surface? Idea: It goes down/pushes
  24. How does the light around will thanke as you move toward the
- surface? Idea: It gets brighter.
- 25. When the diver is feet underwater, the pressure is two times as great as it is on land. 33
- 26. When the diver is feet underwater, the pressure is **three** times as great as it is on land.
- 27. When the diver is feet underwater, the pressure is **four** times as great as it is on land. 100
- 17. (Any 3:) ear pain; mask pushed against face; trouble swallowing, etc. Lesson 103

### **WORKBOOK**

#### Review Items

11. Write the missing seasons on the picture below. 12. Shade half of earth D and half of earth F.



Look at the picture below 13. Which side of the earth is closer to the sun, P or Q? Q 14. Which side of the earth is in nighttime? 15. Which side of the earth is in daytime? Q a Manna Manna Andrea Sun

GO TO PART C IN YOUR TEXTBOOK.

serious. Maybe Al's answer was

Al decided to explain what he meant. He continued, "Light travels 186 thousand miles every second. But at the speed of light it would take us millions of years to reach the galaxy we saw. So light isn't very fast at all. And so I don't know what it means to say that something is fast."

The old man's face looked very cold. Then the old man smiled and said, "You are a smart boy. You are a thinking boy. You have passed your test. You have paid for your trip."

The old man bent over so that his face was very close to Al's face. "And where do you want to go for your next trip? Go anywhere. See anything."

Al thought back to the things that his class had been studying. One thing was matter. His teacher had told the class that all things are made of matter and that there are three forms of matter. But Al didn't understand the three forms of matter.

Al looked at the old man and said, "I would like to find out about matter."

Number your paper from 1 through 21.

**Skill Items** 

At midnight, he saw a familiar galaxy.

- 1. What word refers to something that is well known to you? familiar
- 2. What word means 12 o'clock at night? midnight
- 3. What word names a group of millions and millions of stars? galaxy

#### **Review Items**

- 4. When a person makes an object for the first time, the person the object. invents
- $5.\ \mbox{How many miles does light travel in one second?}$
- 186 million miles 186 miles 186 thousand miles
- 6. What else travels as fast as light? dea: nothing
- 7. How long does it take light to travel from the sun to Earth?
  - 12 minutes 8 minutes 12 seconds

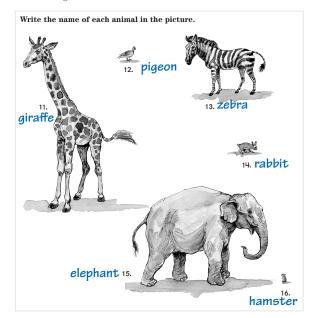
\_

Lesson 104

### **TEXTBOOK**

#### 8. Idea: because there's no air (rushing by you)

- 8. Why doesn't it feel like you're moving when you're speeding through space?
- 9. What is a cloud of stars called? galaxy
- 10. How long does it take sound to travel one mile? 5 seconds



Lesson 104

169

### **TEXTBOOK**

168

- 17. Write the letter of the thing that travels the slowest.
- 18. Write the letter of the thing that travels the fastest.
  - a. light
  - b. racing car
  - c. jet plane
  - d. sound e. rocket
- 19. When you're training an animal, what do you do each time the animal does the trick? Idea: give the animal a reward
- 20. What do you do if the animal does not do the trick? Idea: don't give the
- 21. Name 2 things you could give a dog to reward it. (Any 2:) a bone, a dog treat, a pat on the head, etc.

### **WORKBOOK**

Name \_\_\_\_\_



form.

#### Story Items

- 1. When things are hard, what form of matter are they?
- 2. When hard matter gets hotter, which form does it change into first? **liquid**
- When matter gets still hotter, which form does it change into?
- 4. At first, the frying pan was matter in the **Solid**
- 5. How can you change a solid form of matter into a liquid?
  Idea: Heat it.
- 6. To change a liquid form of matter into a gas, you make the liquid
- hotter

7. What is the coldest form of matter? **Solid** 

- 8. The sun is matter in the **gas** form
- 9. What form of matter is a rock? **Solid**
- 10. What form of matter is the air around you? **925**
- 11. What form of matter did the rock turn into when the old man let go of it? **Q25**

© SRA/McGraw-Hill. All rights reserved

Lesson 105

63

12. Look at the list below. Put an  $\boldsymbol{M}$  in front of everything that is matter.

M air gas
M water liquid

M ice solid

M wood solid

M steam gas

M glass solid

M tea liquid
M smoke gas

\_\_\_\_\_ juice

Look at the list above.

13. Write **solid** after everything that is matter in the solid form.

liquid

14. Write liquid after everything that is matter in the liquid form.

15. Write gas after everything that is matter in the gas form.

GO TO PART C IN YOUR TEXTBOOK.

64 Lesson 105

© SRA/McGraw-Hill. All rights reserved

# **TEXTBOOK**

Number your paper from 1 through 24. Story Items

to Earth (then

1. Where  $\operatorname{did}\nolimits$  Al and the old man go after they left the sun?

to Saturn)

2. What was inside the bottle that the old man was holding? air; gas3. In which form of matter is the air around you? gas

If you make air cold enough, what form of matter does it turn into first?

liquid

5. If you make air still colder, what form of matter does it turn into? **Solid** 

6. Name a planet that has huge rings around it. Saturn

**Skill Items** 

Use the words in the box to write complete sentences

familiar anxious experience miserable galaxy blizzard surprised fierce midnight visibility level demand

7. was in the saw a midnight, familiar, galaxy

### **Review Items**

9. Which planet has more clouds around it, Earth or Mars? Earth

10. Which planet is larger?

11. Which planet is hotter? Earth

12. Why is that planet hotter? Idea: It's closer to the sun.

13. How long does it take light to travel from the sun to Earth?

• 8 hours • 8 seconds • 8 minutes

14. How long does it take sound to travel one mile? 5 seconds

7. visibility, miserable, fierce blizzard

174 Lesson 105

### **TEXTBOOK**

15. It is quiet inside a jet plane that is going 900 miles per hour sound because the plane is moving faster than (of the engines)

16. How many forms of matter are there? 3

17. How many miles does light travel in one second? 186 thousand

18. Name 2 cities in Colorado. Greeley, Denver

VCI

Lesson 105

175

19. Name one city in Utah. Salt Lake City

20. When you teach an animal a simple trick, when do you reward the animal?

21. When don't you reward the animal?

22. Let's say that you want to teach an animal a very hard trick. Can the animal do the trick at first?

23. What will happen if the animal doesn't receive any rewards until it does the trick?

24. So when you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick

20. Idea: when it does the trick

21. Idea: when the animal doesn't do the trick

23. Idea: The animal will stop trying to do the trick.

# **WORKBOOK**

Name \_\_\_\_\_

106

### ■ Story Items

Al and the old man were on several planets with the bottle of air. On which
 planet did they fill the bottle with air? Earth

2. Then Al and the old man took the bottle of air to a planet that has rings.

Which planet was that? Saturn

3. Which planet did Al and the old man go to next? Pluto

4. In what form of matter is air on Saturn? liquid

5. In what form of matter is air on Earth? **gas** 

6. In what form of matter is air on Pluto? **Solid** 

7. Which planet is colder, Saturn or Pluto? Pluto

8. Why is that planet colder? Idea: It is farther from

9. What form of matter is water? liquid

10. What form of matter is steam? **Q25** 

11. What form of matter is ice? **Solid** 

12. How can you change a liquid form of matter into a solid?

Ideas: Cool it; make it colder.

 $13.\,$  How can you change a liquid form of matter into a gas?

<u>ldeas: Heat it; make it hotter.</u>

14. What was strange about Anywhere Street?

Ideas: It was empty; no cars; no people

15. How did Al feel about himself when he realized that he understood matter?

ldeas: smart; good; proud; happy

© SRA/McGraw-Hill. All rights reserved.

Lesson 106

6

### Review Items

- 16. Write the letters of the 5 things that are matter in the solid form. a, b, c, f, i
- 17. Write the letters of the 4 things that are matter in the liquid form. d. e. h. k
- 18. Write the letters of the 3 things that are matter in the gas form.

a. brick d. juice g. smoke j. wood b. glass e. milk h. tea k. water

f. rock

c. ice 19. The sun is matter in the 425

20. What form of matter is the air around you? **925** 

GO TO PART C IN YOUR TEXTBOOK.

i. air

l. steam

### TEXTBOOL



Suddenly Al realized that he was very smart. That made him feel excited. "Wow!" he said, and laughed

out loud. Then he started to run home.

Number your paper from 1 through 18.

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

- 1. Al suddenly realized that he was standing on a floor, not on the planet Pluto. middle
- 2. Al looked at cars and at buildings, and he realized that everything he looked at was matter. end
- 3. The old man said, "Saturn is very far from the sun." beginning

### **Review Items**

- 4. Name the largest planet in the solar system. Jupiter
- 5. How long does it take Jupiter to spin around one time? (about) 10 hours

178

# **TEXTBOOK**

- 6. How many miles does light travel in one second? 186 thousand 7. What else travels as fast as light? Idea: nothing
- 8. How many forms of matter are there? 3
- 9. When things are hard, what form of matter are they? **Solid**
- 10. When hard matter gets hotter, which form does it change into? liquid
- 11. When matter gets still hotter, which form does it change into? 435
- 12. How can you change a solid form of matter into a liquid?
- 13. To change a liquid form of matter into a gas, you make the liquid hotter
- 14. Write the letters of the 5 things that are matter in the solid form. a, b, g, j, k
- 15. Write the letters of the 5 things that are matter in the liquid form. e, f, h, i, l
- 16. Write the letters of the 3 things that are matter in the gas form. c, d, m

a. rock h. soda pop b. glass i. tea j. ice c. smoke d. air k. wood e. water l. iuice f. milk m. steam g. brick

- 17. The sun is matter in the form. **Qa5**
- 18. What form of matter is the air around you? 425

12. Idea: Heat it.

**WORKBOOK** 

107

Name . ■ Story Items

- 1. Why didn't Al tell his mother he had gone to Saturn and Pluto? Idea: She wouldn't believe him.
- 2. Why did Al stay up so late?

<u>Idea: He watched a movie.</u>

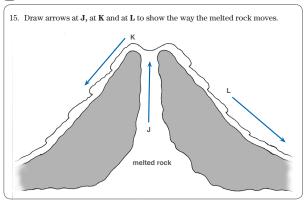
- 3. What did Al do in school that showed he was very tired? <u>ldea: He fell asleep.</u>
- 4. The old man asked Al two questions. Write one of those questions.
- 5. Why did the old man disappear from the store? Idea: because Al didn't know the answers to the questions
- 6. What is the hottest form of any matter? gas
- 7. What is the next-hottest form of any matter? liquid
- 8. What is the coldest form of any matter? Solid
- 9. Why didn't Al know the answers to the old man's questions? <u>Idea: because he hadn't studied</u>
- 10. What did the sign in the store window usually say? Go anywhere. See anything.
- 11. What did the sign in the store window say after Al failed the test? Store for sale
  - 4. (Any1:) Which form of matter is the hottest?: Which form of matter is the coldest?

© SRA/McGraw-Hill. All rights reserved

Lesson 107

- 12. Where did Al go to find the answers to the questions the old man asked? to the library
- 13. Where did Al go after he left that place? Idea: to the old man's store
- 14. Why did he go there? Idea: He wanted to take the test again.

### Review Items



GO TO PART C IN YOUR TEXTBOOK.

# **TEXTBOOK**

15. Ideas: Cool it; make it colder. 16. Ideas: Heat it; make it hotter.

Number your paper from 1 through 23. Review Items

- 1. Which has stronger gravity, Jupiter or Io? Jupiter
- 2. Which is bigger than Earth? Jupiter
- 3. Where can you jump 8 feet high? 10
- 4. How long does it take light to travel from the sun to Earth? 8 minutes
- 5. Why doesn't it feel like you're moving when you're speeding through space? Idea: There's no air (rushing by you).
- 6. What is a cloud of stars called? galaxy
- 7. Write the letter of the thing that travels the slowest.
- 8. Write the letter of the thing that travels the fastest. a. sound c. rocket e. racing car

b. light d. jet plane

- 9. In what form of matter is air on Earth? gas
- 10. In what form of matter is air on Saturn? liquid
- 11. In what form of matter is air on Pluto? Solid
- 12. What form of matter is steam? 935
- 13. What form of matter is ice? **Solid**
- 14. What form of matter is water? liquid
- 15. How can you change a liquid form of matter into a solid?
- 16. How can you change a liquid form of matter into a gas?

Let's say you're training a dog to jump up in the air and do a backward somersault. Use the words below to finish each sentence.

- $\bullet\,$  jumping up and turning upside down
- jumping up in the air
- · jumping up and leaning backward
- 17. At first, you would reward the dog for \_\_\_\_\_\_.
- 18. Later you would reward the dog for

19. Later you would reward the dog for

18. jumping up and leaning backward Lesson 107 19. jumping up and turning upside down

jumping up

in the air

# **TEXTBOOK**

- 20. The more water the glass has, the the sound it makes.
  - higher lower
- 21. Write the letter of the glass that will make the lowest ring.
- 22. Write the letter of the glass that will make the highest ring.



change the reward quickly or slowly?

# **WORKBOOK**

Name.

108

### A Story Items

- 1. Why did the old man give Al a harder test? Idea: He didn't pass the first test.
- 2. Did Al pass the harder test? Yes
- 3. Do all things turn into a gas at the same temperature? 100
- 4. All matter is made up of **molecules**
- 5. After Al passed the test and left the store, what did the sign in the window say? Go anywhere. See anything.
- 6. Do sugar molecules look like air molecules? 100
- 7. Do all sugar molecules look the same? **Ves**
- 8. What did Al do that surprised his class? Ideas: raised his hand; answered a hard question; told about matter
- 9. What did Al want to see on his next trip? **molecules**
- 10. Name 5 things that are made up of molecules. Ideas: water, air, rock, glass, iron, etc.
- 11. Why can't you see molecules when you look at an object? Idea: because the molecules are too small

Lesson 107

185

© SRA/McGraw-Hill. All rights reserved

### Skill Items





### Across

- 2. The sun gives heat and to all the planets.
- 5. The largest planet in the solar system is \_\_\_\_\_.
- 7. The planet that is farthest from the sun is \_\_\_\_\_.
- 8. One of Jupiter's moons is named
- 9. The planet we live on is called

### Down

- 1. The force that makes things fall to the ground is \_\_\_\_\_.
- 3. You can look through a to see some planets.
- 4. The is in the middle of the solar system.
- There are nine in the solar system.

GO TO PART C IN YOUR TEXTBOOK.

# **TEXTBOOK**

Number your paper from 1 through 19.

The crystal contained more than a billion molecules.

- 1. What word means a thousand millions? billion
- 2. What word means the smallest parts of a material? Molecules
- 3. What word names a shiny material that has flat sides and sharp edges? **crystal**

### Review Items

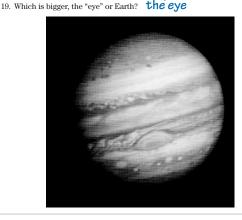
- 4. Write the names of the 9 planets, starting with the planet closest to the sun.
- 5. How many moons does Jupiter have? 63
- 6. Which planet has more moons, Saturn or Jupiter? Jupiter
- 7. Does Io move around Jupiter fast or slowly? fast
- 8. It takes Io about to go all the way around Jupiter. 2 days
- 9. When things are hard, what form of matter are they? **Solid**
- 10. When hard matter gets hotter, which form does it change into? liquid
- 11. When matter gets still hotter, which form does it change into? gas
- 12. Which planet is colder, Saturn or Pluto? Pluto
- 13. Why is that planet colder? Idea: It is farther from the sun.
- 14. What is the hottest form of any matter? qas
- 15. What is the next-hottest form of any matter? liquid
- 16. What is the coldest form of any matter? Solid
- 17. Which uses up more oxygen, jumping or walking? jumping
- 4. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

esson 108

189

### **TEXTBOOK**

18. What planet is shown in the picture? Jupiter



# **WORKBOOK**

Name \_\_\_\_\_

109

### Story Items

- How did Al and the old man change to go inside the grain of sand?
   Ideas: shrank; grew smaller
- 2. The old man told Al, "A grain of sand is made of space and **molecules**
- 3. How were the sand molecules arranged? Idea: in rows
- 4. The sand molecules that Al saw were in the **Solid** form of matter
- 5. Underline 2 things that tell about any molecules in the solid form.
  - They fly around.
- They are hot.
- They stay in place.
- They are lined up.
- 6. The old man planned to make the grain of sand colder than  $% \left( 1\right) =\left( 1\right) \left( 1\right)$

room temperature

### Review Items

Use these names to answer the questions:  ${\bf Tyrannosaurus, Triceratops.}$ 

7. What is animal G? Triceratops

8. What is animal H? Tyrannosaurus





© SRA/McGraw-Hill. All rights reserved.

Lesson 109

- 9. Name an arrow-shaped fish. barracuda
- 10. Write 2 facts about those fish. \_\_\_\_
- 11. Is the water cooler at 100 feet down or at the surface?
- 100 feet down
- 12. Is all the water at 100 feet down the same temperature? 100
- 13. What do you fill a buoyancy device with?
  - air
- 14. When it is filled up, what happens to the diver?

Idea: The diver moves up/floats/goes to the surface.

- 15. When it is empty, what happens to the diver?
  - Idea: The diver moves down/sinks.

GO TO PART C IN YOUR TEXTBOOK.

Ideas (any 2): They're very dangerous;
 their mouths are filled with sharp teeth;
 they grow to almost 2 meters long; etc.

72 Lesson 109

SRA/McGraw-Hill. All rights reserved

### **TEXTBOOK**

Al looked. "I see it," he said.
Then Al saw another molecule and
another molecule. The molecules
seemed to be in a row. Now Al could
see another row of molecules above
the first row. Every molecule was
vibrating very fast.

Al said, "The molecules are all lined up in rows."

The old man said, "These molecules are in the solid form of matter. That is why they are lined up. Remember this rule: When molecules are in the solid form, they are lined up and they stay in place."

"That's really interesting," Al said, looking above the top row of vibrating molecules.

The old man continued, "These molecules are the same temperature

as the room. If we make the grain of sand colder and colder, you will see a change in the molecules."

"I don't understand," Al said.
"These molecules are in the solid form of matter. The solid form of matter is the coldest form. So how could the molecules change if the matter gets colder? The molecules will still be in the solid form."

The old man smiled. "I see that you are using the information you have learned. Good for you, my friend. And you are right. The molecules will remain in the solid form of matter, but watch what happens to them when the temperature gets lower than the temperature on Pluto."

Number your paper from 1 through 24.

Skill Items

Use the words in the box to write complete sentences.

billion	vibrating	galaxy	·			
library	molecules	midnight				
1. At, he saw a 2. The contained more than a						

- 1. At midnight, he saw a familiar galaxy.
- 2. The crystal contained more than a billion molecules.

Lesson 109

193

### **TEXTBOOK**

- 3. What is a person doing when the person makes an object for the first time? **inventing**
- 4. The person who makes an object for the first time is called an **inventor**
- 5. The object the person makes is called an invention
- 6. How can you change a solid form of matter into a liquid? Ideas: Heat it;
- 7. To change a liquid form of matter into a gas, you make the **make it hotter**. liquid **make it hotter**.
- 8. Write the letters of the 5 things that are matter in the solid form. a, c, g, i, i
- 9. Write the letters of the 4 things that are matter in the liquid form. e, f, h, k
- Write the letters of the 3 things that are matter in the gas form.
   b, d, j

a. glass g. rock
b. smoke h. tea
c. brick i. wood
d. air j. steam
e. water k. juice
f. milk l. ice

- 11. Do all things turn into a gas at the same temperature? 110
- 12. All matter is made of \_\_\_\_\_. molecules
- 13. Do sugar molecules look like air molecules?  $\,$   $\,$   $\,$  100  $\,$
- 14. Do all sugar molecules look the same?  $\ \mbox{\bf yes}$

15. Why can't you see molecules when you look at an object? Idea: They are too small.

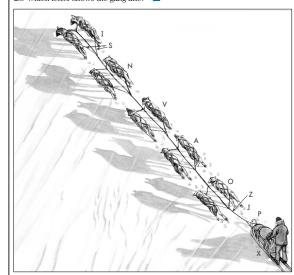
16. Most sled-dog teams have an number of dogs

• odd • even

17. For the Iditarod, a sled-dog team can't have more than dogs. 16

# **TEXTBOOK**

- 18. Which letter in the picture shows the wheel dogs?
- 19. Which letter shows the lead dogs?20. Which letter shows the swing dogs?
- 21. Which letter shows where the musher is most of the time? X
- 22. Which letter shows the tug lines? 5
- 23. Which letter shows the gang line? Z



24. What happens if a sled dog doesn't pass the Iditarod's health examination? Idea: It cannot run the race.

94 Lesson 109

Lesson 109





### Number your paper from I through 36.

- 1. How many miles does light travel in one second?
  - 200 thousand miles 186 thousand miles
- 2. What else travels as fast as light? Idea: nothing

• 186 miles

- 3. How long does it take light to travel from the sun to Earth? 8 minutes
- 4. How long does it take sound to travel one mile? 5 seconds
- 5. It is quiet inside a jet plane that is going 900 miles per hour
- because the plane is moving faster than sound (of the
- 6. Write the letter of the thing that travels the slowest.
- 7. **Write the letter** of the thing that travels the fastest. a. sound
  - c. rocket b. light d. racing car
- 8. How many forms of matter are there?
- 9. When things are hard, what form of matter are they? Solid
- 10. When hard matter gets hotter, which form does it change into? liquid
- 11. When matter gets still hotter, which form does it change into? gas
- 12. How can you change a solid form of matter into a liquid? Idea: Heat it.
- 13. To change a liquid form of matter into a gas, you make the
- 14. Write the letters of the 5 things that are matter in the solid form. a, b, g, i, j
- 15. Write the letters of the 4 things that are matter in the liquid form. e, f, h, k
- 16. Write the letters of the 3 things that are matter in the gas form. C, d, a. rock
  - g. brick h. tea b. glass c. smoke i. ice d. air i. wood e. water k. juice f. milk
- 196 Lesson 110

# **TEXTBOOK**

- 17. The sun is matter in the form. 935
- 18. What form of matter is the air around you? 425
- 19. In what form of matter is air on Pluto? **Solid**
- 20. In what form of matter is air on Earth? 935
- 21. In what form of matter is air on Saturn? liquid
- 22. What form of matter is steam? 435
- 23. What form of matter is ice? **solid**
- 24. What form of matter is water? liquid
- 25. What is the hottest form of any matter? 935
- 26. What is the next-hottest form of any matter? liquid
- 27. What is the coldest form of any matter? **Solid**
- 28. Do all things turn into a gas at the same temperature? 10
- 29. What are tiny parts of matter called? molecules
- 30. Do iron molecules look like sand molecules? 100
- 31. Do all iron molecules look the same? yes

### Skill Items

For each item, write the underlined word from the sentences in the box.

> At midnight, he saw a familiar galaxy. The crystal contained more than a billion molecules

- 32. What word means a thousand millions? billion
- 33. What word names a group of millions and millions of stars?
- 34. What word means 12 o'clock at night? midnight
- 35. What word means the smallest parts of a material? Molecules
- 36. What word refers to something that is well-known to you? familiar

END OF TEST 11

197

# **WORKBOOK**

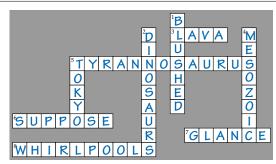
Name

Story Items

- 1. How many globes were in each sand molecule? 3 2. How many tiny balls were in the center globe? 14
- 3. How can you make the molecules in a liquid move faster?
  - · Heat them. · Cool them.
- 4. How can you make the molecules in a liquid move slower? Idea: Cool them.
- 5. When sand molecules are as cold as they can get, how much do they move? notatall
- 6. Do they move **more** or move **less** at room temperature? **More**
- 7. In which form of matter do molecules move fastest?
- 8. In which form of matter do molecules move slowest?
- 9. In which form of matter are molecules lined up in rows? solid

# **WORKBOOK**

Tricerators lava Tyrannosaurus whirlpools storms China Mesozoic Greece mention earthquake blushed glance Tokyo hesitated dinosaurs suppose



### Across

- 3. Hot, melted rock is called
- 5. A huge killer dinosaur was named
- 6. Another word for believe or think is
- When you look at something very quickly, you at the thing.
- 8. In the Bermuda Triangle, there are many

- 1. Leonard when the audience applauded.
- 2. The animals that lived during the Mesozoic were called
- 4. The time when dinosaurs lived is called the
- The largest city in Japan is

GO TO PART C IN YOUR TEXTBOOK.

Lesson 111 SRA/McGraw-Hill. All rights reserved

© SRA/McGraw-Hill. All rights reserved

Lesson 111

floated, he tried to make sure that he would remember the things he had seen. He remembered how the molecules looked when they were as cold as they could get. He remembered how they looked in the solid form at room temperature. He remembered how they changed when they got hot enough to go into the liquid form. And he remembered how they looked in the gas form.

Suddenly Al noticed that everything was getting darker and darker Now Al could see that he was no longer small. He was standing inside the old man's store.

The old man said, "You wanted molecules. You got molecules. Remember everything that you have seen. Pass the test and pay for your trip. Then you can go on another trip. Go anywhere. See anything.

Al said, "Don't worry. I'll pass the

### Number your paper from 1 through 22. **Story Items**

- Write the letters of the 2 ways that molecules charge when they go from a solid to a liquid.
  - a. They move slower.
  - b. They move faster.
  - c. They stay in rows.
  - d. They do not stay in rows.
- 2. Did Al see many molecules when the sand was in the gas form? 10
- 3. In which form of matter are molecules closest together? **Solid**
- 4. In which form of matter are molecules farthest apart? gas

### **Review Items**

- 5. Which planet has more gravity?
- 6. How do you know? Idea: It's bigger.







200

# WORKBOOK

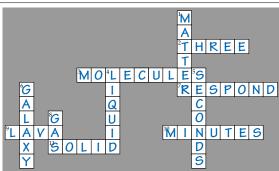
TEXTBOOK

show people leaving the room

off

### Skill Items

seconds	seven	matter	solid	hours
molecules	answer	minutes	respon	nd cloud
liquid	galaxy	lava	gas	three



- 2. There are forms of matter.
- 3. Tiny parts of matter are called
- 7. Another word for **react** is 9. Hot melted rock is
- 10. It takes light 8 to travel from the sun to Earth.
- 11. When things are hard, they are matter in the form.

- 1. Air, water and dirt are different forms of
- 4. Water is matter in the form.
- 5. It takes sound 5 to travel one mile.
- 6. A cloud of stars is called a
- in the form.

GO TO PART C IN YOUR TEXTBOOK.

**WORKBOOK** 

4. Ideas: because the old man told him about molecules; because Al went on Name a trip/saw molecules

112

### Story Items

1. Al wanted to tell Angela his secret about Anywhere Street, but part of his mind told him that Angela Idea: would

### not believe him

- 2. Did she believe Al's story about the old man and the trips? 100
- 3. Did Angela believe that Al knew a lot about molecules? Yes
- 4. Why did Al know so much about molecules?
- 5. Where did he go after school? to the (old man's) store
- 6. The old man gave Al a test on molecules. Write the 2 questions the old man

asked. Then write the answers to the questions. Idea: How can we make molecules stand still? ldeas: Cool them; make them as cold as they can get. Idea: How can you make molecules go very fast?

Answer 2: Ideas: Heat them; make the molecules hotter.

- 7. After the test, Al asked the old man a question. What did he want the old man to do? Idea: take Angela on a trip (with them)
- 8. How will Angela pay for her trip? Idea: She'll have to pass a test on what she sees.

### Review Items

- 9. How many moons does Saturn have? 47
- 10. How many moons does Jupiter have? 63
- 11. How far is it from Earth to Jupiter? 400 million miles

C SRA/McGraw-Hill. All rights reserved Lesson 112

# 11. A person weighs 100 pounds on planet A and 300 pounds on planets would you weigh more?

planet G. Which planet has stronger gravity? 12. Planet M has stronger gravity than planet R. On which of those

For each picture, tell if the lights in the room are on or off. The

solid arrows show people going into the room. The dotted arrows

on

on

on

- 13. How long does it take sound to travel one mile? 5 seconds
- 14. Write the letter of the thing that travels the slowest. C 15. Write the letter of the thing that travels the fastest.
  - c. racing car a. rocket
  - b. jet plane d. sound
- 16. What is the hottest form of any matter? 935
- 17. What is the next-hottest form of any matter?
- 18. What is the coldest form of any matter? **Solid**
- 19. Do all things turn into a gas at the same temperature? 100
- 20. What are tiny parts of matter called? molecules
- 21. How many miles does light travel in one second? 186 thousand
- 22. What else travels as fast as light? **Idea: nothing**

Lesson 111

201









The old man straightened up and waved his hand. "Now where do you want to go? Remember—go anywhere. See anything."

Al asked, "Could I take my sister with me on the next trip? She's smart and she'd really love to go on these trips."

The old man smiled. He said, "Bring her with you. But remember—she'll have to pass a test on what she sees."

"She'll pass the test," Al said. Al ran from the store. The bell went ding, ding. Al could hardly wait to tell Angela.

# Number your paper from 1 through 17. Review Items

- 1. How can you make the molecules in a liquid move slower?
  - Heat them.
     Cool them.
- 2. How can you make the molecules in a liquid move faster? Idea: Heat them.
- 3. In which form of matter do molecules move fastest? gas
- 4. In which form of matter do molecules move slowest? Solid
- 5. In which form of matter are molecules lined up in rows? Solid
- 6. In which form of matter are molecules farthest apart? gas
- 7. In which form of matter are molecules closest together? Solid
- 8. When sand molecules are as cold as they can get, how much do they move? Idea: not at all
- 9. Do they move **more** or **less** at room temperature? **More**
- 10. Write the letters of the 2 ways that molecules change when they go from a solid to a liquid.  $\red{b}, \mbox{\it C}$ 
  - a. They stay in rows.
- c. They move faster.
- b. They do not stay in rows.
- d. They move slower.

# **TEXTBOOK**

- 11. What are clouds made of? (tiny) drops of water
- 12. What kind of cloud does the picture show? storm clouds
- 13. What happens to a drop of water at B? Idea: It freezes.



Use these words to answer items 14-16:

- swing dogs
   wheel dogs
- lead dogs
- 14. These dogs are very smart, and other dogs obey them. lead dogs
- 15. These dogs are very good followers, and they are smart. swing dogs
- These dogs are responsible for freeing the sled when it gets stuck. Wheel dogs
- 17. Why can't you see molecules when you look at an object? Idea: They are too small.

206 Lesson 112 Lesson 112 207

# **WORKBOOK**

113

Name .

### Story Items

 After supper, Al said to Angela, "Let's go for a walk. I want to tell you something." What did he want to tell her?

ldea: that she could go on a trip

- Al kept making a picture of what Angela's face would look like when she found out that Al had been telling the truth. He imagined that her mouth would ldea: fall open
- 3. He imagined that her eyes would Idea: get wide
- 4. How did the picture that Al imagined compare to the one that he actually saw?

# ldea: It was the same as what actually happened.

- 5. Was Angela surprised that there really was an Anywhere Street?  $\ensuremath{\mbox{\sc yes}}$
- ${\it 6. \ \, How \, did \, Angela \, feel \, when \, the \, old \, man \, first \, appeared?}$

Ideas: surprised; scared; etc.
7. Where did the old man take Al and Angela?

Ideas: to Africa; to a jungle

8. Why did Al take off his jacket and open his shirt?

Idea: because it was very hot

9. What animal charged at Al and Angela?

<u>elephant</u>

**WORKBOOK** 

### Review Items

- 10. What do sled dogs wear to protect their feet? **booties**
- 11. Underline the 4 items that tell what could happen to a sled dog's feet if they didn't have protection.
  - a. slipping on hard snow
  - b. snowballs between the pads
  - c. icicles on their ankles
- e. long claws
- f. cuts that do not heal well g. cuts from ice and frozen snow
- d. stiff legs

12. If booties on a sled dog are too tight, what could happen?

13. If booties are too loose, what could happen?

### Idea: They could fall off.

- 14. What command tells sled dogs to turn right? **gee**
- 15. What command tells sled dogs to move straight ahead? **mush**
- 16. What command tells sled dogs to turn left? haw
- 17. During the Iditarod, what does a musher have to do with any dogs that are injured?
- 18. According to the Iditarod rules, there must be at least how many dogs on the gang line at the end of the race? at least 5

GO TO PART C IN YOUR TEXTBOOK.

- 12. Ideas: The dog's blood cannot circulate around the paws; the dog's ankles could swell up.
- 17. Idea: Drop off the dog at the next checkpoint.

© SRA/McGraw-Hill. All rights reserved.

Lesson 113 77 78 Lesson 113 © SRA/McGraw-Hill. All rights reserved.

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto

Number your paper from 1 through 22.

Skill Items 12. Ideas: heat snow to melt it; haul The poem they created was nonsense. Water from

1. What word means no sense at all? Nonsense

a stream

2. What word means made? created

# Review Items 13. branches from evergreen trees $^3$ . Write the names of the $^9$ planets, starting with the planet

- closest to the sun.
- 4. In which form of matter is air on Saturn? liquid
- 5. In which form of matter is air on Pluto? Solid
- 6. In which form of matter is air on Earth? gas
- 7. In which form of matter do molecules move fastest? gas
- 8. In which form of matter do molecules move slowest? Solid
- 9. In which form of matter are molecules lined up in rows? **Solid**
- 10. How many miles does light travel in one second? 186 thousand (miles)
- 11. What else travels as fast as light? Idea: nothing
- 12. During the Iditarod, how do mushers get water for their dogs?
- 13. What do mushers usually use to make beds for their dogs?
- 14. What's the name of the first woman to win the Iditarod? Libby Riddles
- 15. In what year did she win it? 1985
- 16. During the Iditarod, is the snow deeper on the trail or off the trail? off the trail
- 17. Why? Idea: No one had been over the snow recently.
- 18. The rules of the Iditarod state that every musher must rest for hours at one checkpoint and must rest for hours at two other checkpoints. 24/8
- 19. This rule was put in to protect the
- 20. In what year was the first Iditarod? 1973
- 21. During the first running of the Iditarod, how many dogs died during the race? 30
- 22. During more recent years, how many dogs die during each race? 2 or 3 Lesson 113

211

# **WORKBOOK**

Name.

A Story Items

1. What happened to the elephant that was chasing Angela? Idea: It disappeared.

2. Where did the old man take Al and Angela after they left the jungle? Idea: the ocean

- 3. Who wanted to go there?
- 4. How deep was the **bottom** of the ocean where Al and Angela were?
  - 200 feet
  - 2 miles
  - 20 feet
- 5. What covers some of the rocks? **Coral**
- 6 What is coral made of?
  - · animal shells
  - rocks
  - insects
- 7. When the old man blew up the balloon, it was about as big as an apple
- 8. The old man stopped at 30 feet from the surface. As he went up, did the balloon have more or less air pressure on it? less (pressure)
- 9. So did the balloon get bigger or smaller? bigger
- 10. Then what happened to the balloon? Idea: It burst.

Lesson 114

79

### **WORKBOOK**

11. Where would a balloon be bigger—at 60 feet below the surface or at 120 feet below the surface?

60 feet below (the surface)

Here's how big a balloon is at 20 meters below the surface



Here's the same balloon when it is deeper or not as deep











- 12. Write  ${\bf D}$  on each balloon that is deeper than balloon  ${\bf X}$ .
- 13. Circle the balloon that is the deepest.
- 14. Cross out the balloon that is closest to the surface.
- 15. What is the old man going to show Al and Angela next? Idea: wonders of the sea
- 16. How does Angela feel about that? Ideas: excited; happy

GO TO PART C IN YOUR TEXTBOOK.

# TEXTBOOK

© SRA/McGraw-Hill. All rights reserved

less pressure on it. After a few moments, Al said, "I'll remember everything."

"Me too," his sister said

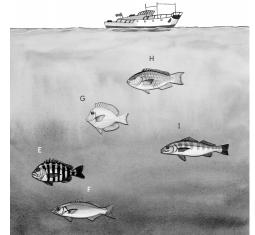
"Good," the old man said. "Now let's go back down 🥮 and see some of the wonders of the sea.'

Al was ready to see them. Angela said, "That sounds great."

# Number your paper from 1 through 22. **Story Items**

1. There's a fish at each letter. Write the letter of the fish with the  ${\bf greatest\ pressure}$  on it.  ${\bf F}$ 

2. Write the letter of the fish with the **least pressure** on it.



### **Skill Items**

Write the word from the box that means the same thing as the underlined part of each sentence.

daydreamed concluded survives section surrounds experience demonstrated however

- 3. The fence goes all the way around the yard. Surrounds
- 4. He cleaned his part of the room. section
- 5. They showed how the machine works. demonstrated

Use the words in the box to write complete sentences.

nonsense insisted molecules created impressive crystal honest billion

6. The contained more than a crystal, billion,

molecules

7. The poem they was created, nonsense

### **Review Items**

- 8. If something weighed 50 pounds on Earth, would it weigh more than 50 pounds on our moon? 110
- 9. Which is larger, Earth or Jupiter? Jupiter
- 10. If something weighed 20 pounds on Earth, would it weigh more than 20 pounds or less than 20 pounds on Jupiter?
- 11. Write the letter of the footprint made by the lightest animal.



10. more than 20 pounds

### TEXTBOOK

- 13. What color is lava when it's very hot? orange
- 14. What color is lava after it cools a little bit? brown
- 15. What color is lava after it's completely cooled? gray • brown gray

Write the name of each kind of coral.





staghorn coral



18. red coral

19. An underwater hill that is covered with coral is called a coral

Susan Butcher 20. Name the woman who finished the Iditarod sixteen times

21. How many times did she **enter** the Iditarod? 17

22. How many times did she finish in first place? 4

Lesson 114

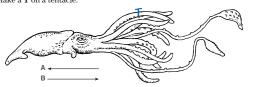
217

# **WORKBOOK**

Name

Story Items

- 1. Al and Angela saw a huge whale. Name that whale. blue whale
- 2. The old man told Al and Angela, "The squid moves by <u>squirting out water</u>
- 3. Name the largest animal in the world. blue whale
- That animal weighs more than <u>10</u> elephants.
- 5. Are whales fish? 10
- 6. What's the name of a smaller whale that is black and white? killer whale
- 7. Are whales warm-blooded or cold-blooded? warm-blooded
- 8. Name the animal in the picture. Squid
- 9. Which arrow shows the way the animal squirts water out?
- 10. Which arrow shows the way the animal will move?
- 11. Make a T on a tentacle.



**WORKBOOK** 

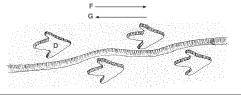
Review Items

The picture shows marks left by an animal.

12. Which arrow shows the direction the animal is moving?  $\underline{G}$ 

13. Write the letter of the part that shows the mark left by the animal's tail.

14. Write the letter of the part that shows a footprint.



15. In which form of matter are molecules lined up in rows? solid

16. In which form of matter do molecules move slowest? solid

17. In which form of matter do molecules move fastest?

18. Where would a balloon be bigger—at 90 feet below the surface or at 60 feet below the surface?

60 feet below (the surface)

GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

Lesson 115

© SRA/McGraw-Hill. All rights reserved

### Number your paper from 1 through 21. Story Items

- 1. What animal did the giant squid attack? blue whale
- 2. Did the squid kill that animal? 100

- 3. What kind of animals scared the blue whale? killer whales
  4. Why was the blue whale afraid of those animals? whales can kill blue
  5. At the beginning of today's story, the old man blew up a balloon. whales 5. At the beginning of today's story, the old man blew up That balloon was the size of a watermelon
- 6. What happened to the balloon as the old man went deeper and deeper? Idea: It got smaller (and smaller).
- 7. Why did that happen? Idea: There was more pressure on it.
- 8. How many feet deep did the old man take Al and Angela? 300 (feet)
- 9. What color was the water down there?
  - light blue dark purple
- 10. Al and Angela saw an animal that looked like a giant tube with many arms. Name that animal. giant squid
- 11. About how long was the animal? 50 feet
- 12. What are the animal's arms called? tentacles
- 13. The animal's arms stick to things because they are covered with Idea: small cups

### **Review Items**

- 14. Name 3 things an Iditarod musher does at checkpoints.
- 15. Why are checkpoints called checkpoints?
- 16. How does food get to the checkpoints? Idea: airplanes deliver it
- 17. About how far apart are the checkpoints? 50 miles
- 18. About how many checkpoints are there between Anchorage and
- Nome? 24 4. (Any 3:) rest their teams; make repairs; feed their dogs; drop off injured or sick dogs; get food; have veterinarians check the dogs
- 15. Idea: because race officials check that all mushers pass through each checkpoint

222

# **TEXTBOOK**

Here's how big a balloon is at 5 feet below the surface.



Here's the same balloon when it is deeper or not as deep.

- 19. Write the letter of each balloon that is deeper than the balloon  $\mathbf{R}$ .  $\mathbf{B}$ ,  $\mathbf{C}$ ,  $\mathbf{E}$
- Write the letter of the balloon that is deepest.
- 21. Write the letter of the balloon that is closest to the surface. A







Lesson 115

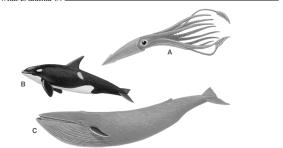
223

# **WORKBOOK**

Name

### Story Items

- 1. The old man made a high sound. What did that tell the killer whales to do? <u>Idea: swim away (fast)</u>
- 2. Did the killer whales kill the blue whale? 100
- 3. How deep is the deepest part of the ocean?
  - 60 miles • 10 miles • 6 miles
- 4. Do plants grow on the bottom of the deepest part of the ocean?
- 5. Tell why. Idea: because there is no sunlight
- 6. Do the fish on the bottom of the ocean look like fish near the surface?
- 7. What is animal A? giant squid
- 8. What is animal B? killer whale
- 9. What is animal C? blue whale



SRA/McGraw-Hill. All rights reserved

GO TO PART C IN YOUR TEXTBOOK.

# **WORKBOOK**

- 10. When Al and Angela got home, their mother was holding a package. Who was the package from? the old man
- 11. What was inside the package? a book
- 12. What was shown in the picture on the cover? Idea: a blue whale and a giant squid
- 13. Some pictures in the book showed things that Al and Angela had seen on their trip. Name 2 of those things. (Any 2:) blue whale; giant squid: killer whales; strange deep-sea fish; balloon rising and getting bigger
- 14. Where did Al take the book the next day? to school
- 15. Who made fun of Al in school? Homer
- 16. How did the students in Al's class like his explanations of the things in the book? Idea: They liked him.
- 17. What did the students do when Al finished his talk? Idea: applauded

© SRA/McGraw-Hill. All rights reserved

Number your paper from 1 through 22.

The squid wriggled its tentacles.

- 1. What word names a sea animal? Squid
- 2. What word means squirmed around in all directions? Wriggled
- 3. What word refers to arms that are like huge snakes? tentacles

Here are 3 events that happened in the story. Write **beginning**, **middle** or **end** for each event.

- 4. Here's what somebody said: "That sound is part of the language killer whales use." **beginning**
- 5. After Al and Angela left the store, Angela asked, "Did we really go to the bottom of the ocean?" middle
- 6. Al showed the book to his class and started to explain.

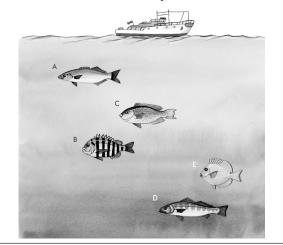
### **Review Items**

- 7. In what state is the Iditarod sled-dog race? Alaska
- 8. In which city does it begin? Anchorage
- 9. In which city does it end? Nome
- 10. The Iditarod is about miles from start to finish.
  - 500 1600 1100
- 11. In most years, the race takes about
  - a week 10 days 2 weeks
- 12. The person who drives a sled-dog team is called a **musher**
- 13. The drivers of the sled-dog teams command the dogs by using their
  - reins voices steering wheels

228 Lesson 116

# **TEXTBOOK**

- There's a fish at each letter. Write the letter of the fish with the greatest pressure on it.
- 15. Write the letter of the fish with the **least pressure** on it. A



- 16. Name the largest animal in the world. blue whale
- 17. That animal weighs more than elephants. 10
- 18. What's the name of a smaller whale that is black and white?
- 19. Are whales fish?
- 20. Are whales warm-blooded or cold-blooded? Warm-blooded
- 21. What are a squid's arms called? tentacles
- 18. killer whale (Accept orca)

Lesson 116

229

# **WORKBOOK**

Name \_\_\_\_\_

117

### Story Items

- 1. Where did Al and Angela go after school?

  Idea: to the old man's store
- 2. Why was Angela walking so fast? Idea: She wanted to get to the store/to go on a trip.
- 3. The old man asked Al and Angela many questions about the sea. Write 2 of those questions. Then write the answers. (Any 2:)
- Question 1: A. How does a squid make itself move?

  B. How deep is the ocean?
- Answer 1: A. by squirting out water B. 6 miles
- Question 2: C. What's the largest animal?

  D. How big is the largest animal?
- Answer 2: C. blue whale D. as big as 10 elephants
- 4. Where did Angela want to go on their next trip?

Idea: to the stars

- Name the first star that the old man showed Al and Angela. (our) sun
- 6. Al and Angela saw flames on the sun that were 12 bigger than Earth.
- 7. Al and Angela went to a little star. That star was  $\underbrace{\mathcal{S}}$  miles through the middle.

# **WORKBOOK**

- 8. Earth is **8 thousand** miles through the middle.
- 9. Which weighs more, the little star or Earth? the little star
- 10. The old man put a spoonful of matter on one side of the balance scale. What was the first thing he put on the other side of the scale?

### a bia rock

- 11. Did the scale balance? NO
- 12. What object finally made the scale balance?

### <u>a huge mountain</u>

- 13. So the spoonful of matter weighed as much as
  - 10 trucks <u>a huge mountain</u> 50 trucks

### Review Items

- 14. In what form of matter is air on Pluto? Solid
- 15. In what form of matter is air on Earth? **Q35**
- 16. In what form of matter is air on Saturn? liquid
- 17. What form of matter is steam? **gas**
- 18. What form of matter is water? liquid
- 19. What form of matter is ice? Solid
- 20. How deep is the deepest part of the ocean?
  - 1 mile <u>6 miles</u> 10 miles

GO TO PART C IN YOUR TEXTBOOK.

© SRAMcGraw-Hill. All rights reserved. Lesson 117 85 86 Lesson 117 © SRAMcGraw-Hill. All rights reserved.

C Number your paper from 1 through 21.

Use the words in the box to write complete sentences.

expensive wriggled shocked created tentacles nonsense addressed universe

- 1. The poem they was created, nonsense
- 2. The squid its wriggled, tentacles

### **Review Items**

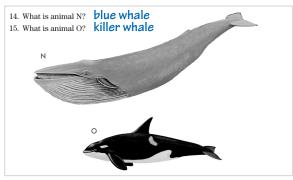
- 3. Name the animal in the picture. giant squid 4. Which arrow shows the way the animal squirts water out? X
- 5. Which arrow shows the way the animal will move?

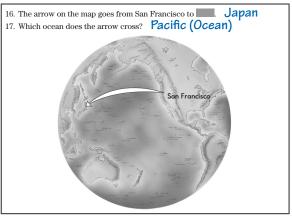


- 6. How long does it take sound to travel one mile? 5 seconds
- 7. Do plants grow on the bottom of the deepest part of the ocean? 100
- 8. Tell why. Idea: There's no sunlight.
- 9. Do all things turn into a gas at the same temperature? 100
- 10. What are tiny parts of matter called? molecules
- 11. Do wood molecules look like air molecules? 10
- 12. Do all air molecules look the same? Yes
- 13. Where would a balloon be bigger—at 100 feet below the surface of the ocean or at 40 feet below the surface? 40 feet below

Lesson 117

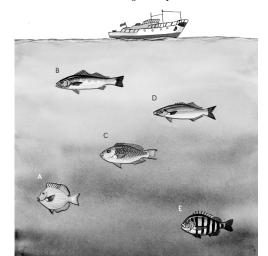
## TEXTBOOK





# **TEXTBOOK**

- 18. During the Iditarod, how much food does each dog need every
- 2 pounds • 3 pounds • 1 pound 19. Each sled in the Iditarod must have room to hold
- an injured dog another musher a spare sled
- 20. Write the letter of the fish with the **least pressure** on it. 21. Write the letter of the fish with the **greatest pressure** on it.



**WORKBOOK** 

118

Story Items

Name\_

- 1. Is our sun a huge star? <u>no</u>
- 2. Al and Angela went to a huge star. Name the planets that would be inside that star if it was in the center of our solar system.

Mercury, Venus, Earth, Mars, Jupiter

- 3. How long would it take light to travel from one side of that star to the other side? (over) 45 minutes
- 4. Name the galaxy that Al and Angela saw. Milky Way
- 5. How many stars are in that galaxy?

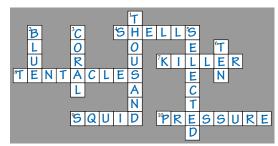
### 100 billion

- 6. How long does it take light to travel from one side of that galaxy to the other side?
  - · 100 thousand years
  - 180 thousand years
  - 40 years
- 7. One star in the galaxy started flashing. What's special about that star? ldea: It's our sun.

Lesson 117 237 © SRA/McGraw-Hill. All rights reserved.

### Skill Items

pressure giant temperature blue sauid killer thousand hundred skeletons shells coral plants two ten selected exclaimed tentacles



- 4. Coral is made up of of sea animals
- 7. whales are black and white.
- 8. The arms of a souid are called
- 9. A sea animal that looks like a giant carrot is a
- 10. The old man used a balloon to show Al and Angela how works.

- 1. Earth is 8 miles through the middle
- 2. The largest animal in the world is the whale.
- 3. Some rocks underwater are covered with
- Another word for chose is
- 6. A blue whale weighs as much as elephants.

GO TO PART C IN YOUR TEXTBOOK.

# TEXTBOOK

Number your paper from 1 through 22.

Write the word from the box that means the same thing as the underlined part of each sentence.

> receive whether trembled survive injured selected appeared

- 1. Most plants cannot <u>live</u> without sunshine. **SURVIVE**
- 2. She chose a very long book to read. Selected
- 3. She was <u>hurt</u> when she fell. **injured**

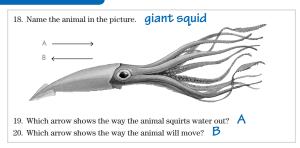
### **Review Items**

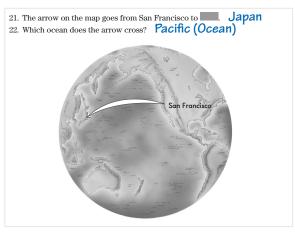
- 4. Which has more gravity, Jupiter or Io? Jupiter
- 5. Which is **smaller** than Earth?
- 6. Where can you jump 8 feet high?
- 7. How many miles does light travel in one second? 186 thousand (miles)
- 8. What else travels as fast as light? Idea: nothing
- 9. How long does it take light to travel from the sun to Earth? 8 minutes
- 10. How can you change a solid form of matter into a liquid? ldea: Heat it.
- 11. To change a liquid form of matter into a gas, you make the liquid hotter
- 12. In which form of matter are molecules farthest apart? gas
- 13. In which form of matter are molecules closest together? Solid
- 14. Earth is through the middle.
  - 8 miles • 8 thousand miles • 8 hundred miles
- 15. Where would a balloon be bigger—at 100 feet below the surface of the ocean or at 200 feet below the surface? 100 feet below
- 16. How many mushers start the Iditarod at the same time?
- 17. How much time passes before the next musher starts? 2 minutes

Lesson 118

241

# **TEXTBOOK**





242 Lesson 118

# **WORKBOOK**

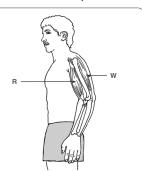
Name



- Story Items
- 1. The teacher told the class that in two days they would have a test on the human body
- 2. Was Al excited about the test? 10
- 3. Did Al want to learn about the human body? 110\_
- 4. As the man's arm pushed the weight overhead, the muscle on the back of the arm got
  - shorter and thicker
  - · longer and thicker
  - · longer and thinner
- 5. Why were the store windows decorated? Idea: It was almost Christmas.
- 6. Why did Al feel sad when he looked inside those windows? Idea: He didn't have money for presents.
- 7. What present did Al want to buy for his mother? <u>a toaster</u>
- 8. Who decided where to go on the next trip? **the old man**
- 9. At the end of the story, what did the old man do to one of the muscles? <u>ldea: cut it</u>
- 10. Name the muscle on the **front** of the upper arm. **biceps**
- 11. Name the muscle on the back of the upper arm. triceps
- 12. How many jobs does each muscle have? 1

© SRA/McGraw-Hill. All rights reserved

- Name the arm muscle that gets shorter when you straighten your arm.
   the triceps
- Name the arm muscle that gets shorter when you bend you arm.
   the biceps
- 15. When you bend your arm, one of the muscles gets longer as the other one gets shorter. Name the muscle that gets longer. the triceps
- 16. Which letter shows the triceps? W
- 17. Which letter shows the biceps? K
- 18. Which letter shows the muscle that bends the arm? K
- Which letter shows the muscle that straightens the arm? W



GO TO PART C IN YOUR TEXTBOOK.

SRA/McGraw-Hill. All rights reserved.

### **TEXTBOOK**

"Wow!" Angela exclaimed. "I never knew there were so many muscles in the body."

"Yes," the old man said. "And every muscle has one job. Every muscle helps the man move one part of his body one way. Watch the man move. See if you can figure out which muscle is working."

The man's leg started to bend back. Angela pointed to the muscle on the back of the upper leg. "There's a muscle getting shorter and thicker."

The old man said, "That's right. The only muscle that can bend the man's leg is the muscle on the back of the upper leg. It pulls and gets shorter to bend the leg back."

Now the man's head started to move back and Al could see that the muscles at the back of the neck were getting shorter and thicker. He pointed to them and told the old man that they were the muscles that moved the head back.

As the man's head started to move forward, Al could see the muscles in the front of the neck getting shorter and thicker. They were moving the head forward.

Angela observed, "The muscles work in pairs. One muscle moves a part of the body one way. The muscle on the other side of the part moves that part the other way."

"Correct," the old man replied.
"And if one of those muscles is cut, the part cannot move. Watch what happens when the muscle in the back of the upper leg is cut." The man's leg started to bend back. Suddenly, it stopped and came forward. The old man explained, "The muscle in the back of the upper leg is cut now, so the man cannot bend the leg back. There is only one muscle that can do that job, and that muscle is not working."

"That's amazing," Angela said.

# Number your paper from 1 through 21. Story Items

The only muscle that can move your head **forward** is the muscle on the forward is the forward is the muscle on the forward is t

• front • b

2. The only muscle that can move your head **backward** is the muscle on the of your neck.

ont •

back

246 Lesson 1

# **TEXTBOOK**

Skill Items

Write the word or words from the box that mean the same thing as the underlined part of each sentence.

a scary large intelligent a transparent balanced a fantastic unimportant

- 3. I have a very smart dog. intelligent
- 4. The speech was not important. unimportant
- 5. She told an amazing story. a fantastic

### The triceps muscle is bigger than the biceps muscle.

- 6. What word names the muscle on the front of the upper arm? biceps
- What word names the muscle on the back and side of the upper arm? triceps
- 8. What do we call a part of your body that is attached to bones and moves bones? **muscle**

### **Review Items**

- 9. The sun is matter in the form. gas
- 10. What form of matter is the air around you? gas
- 11. Name the largest animal in the world. blue whale
- 12. That animal weighs more than elephants. 10
- 13. What's the name of a smaller whale that is black and white? killer whale
- 14. Al and Angela went to a huge star. Name the planets that would be inside that star if it was in the center of our solar system. Mercury, Venus, Earth, Mars, Jupiter
- 15. Name the galaxy that Al and Angela saw. Milky Way

### **TEXTBOOK**

Here's how big a balloon is at 50 meters below the surface of the ocean.



Here's the same balloon when it is deeper or not as deep.

- 16. Write the letter of each balloon that is deeper than balloon **J. Q**, **R**, **S**, **T**
- 17. Write the letter of the balloon that is closest to the surface.  $\ensuremath{\mathsf{U}}$
- 18. Write the letter of the balloon that is deepest.











- 19. The rules for the Iditarod require each musher to have certain things. Write the letters of those things. a,b,e,h,i
  - a. booties
  - b. snowshoesc. extra dogs
  - d. firewood
  - e. a good sleeping bag
  - f. extra shoes
  - g. enough food for a week
  - h. enough food for a day
  - i. an ax
  - j. a tent
- 20. When Iditarod mushers are on the trail, how much help can they get from someone else? **none**
- 21. Why can't you see molecules when you look at an object? Idea: They are too small.

248

Lesson 119

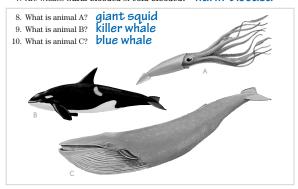
Lesson 119





### Number your paper from 1 through 30.

- In which form of matter are molecules lined up in rows?
- 2. In which form of matter do molecules move slowest? **Solid**
- 3. In which form of matter do molecules move fastest? 435
- 4. In which form of matter are molecules closest together? Solid
- 5. In which form of matter are molecules farthest apart? gas
- 6. Are whales fish? 10
- 7. Are whales warm-blooded or cold-blooded? Warm-blooded



- 11. Name the galaxy that we live in. Milky Way
- 12. Name the muscle on the back of the upper arm. triceps
- 13. Name the muscle on the **front** of the upper arm. biceps
- 14. How many jobs does each muscle have? 1
- 15. Name the arm muscle that gets shorter when you bend your arm. biceps
- 16. Name the arm muscle that gets shorter when you straighten your arm. triceps

# **TEXTBOOK**

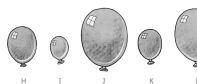
17. When you straighten your arm, one of the muscles gets longer as the other one gets shorter. Name the muscle that gets longer. biceps

Here's how big a balloon is at 30 feet below the surface of the ocean.

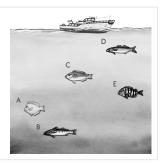


Here's the same balloon when it is deeper or not as deep.

- 18. Write the letter of each balloon that is deeper than balloon M. H, I, K
- Write the letter of the balloon that is deepest.
- 20. Write the letter of the balloon that is closest to the surface.



- 21. Write the letter of the fish with the greatest pressure on it. B
- 22. Write the letter of the fish with the least pressure on it.  $\,\,\,$



# **TEXTBOOK**

Skill Items

For each item, write the underlined word or words from the sentences in the box.

The poem they created was nonsense.

The squid wriggled its tentacles

The triceps muscle is bigger than the biceps muscle.

- 23. What underlining refers to arms that are like huge snakes? tentacles
- 24. What underlining refers to a part of your body that is attached to bones and that moves bones? muscle
- 25. What underlining means squirmed around in all directions? Wriggled
- 26. What underlining names the muscle on the front of the upper arm? biceps
- 27. What underlining means made? created
- 28. What underlining means no sense at all? NONSENSE
- upper arm? triceps
- 30. What underlining names a sea animal? Squid

END OF TEST 12 i

# **WORKBOOK**

Story Items

Name

- 1. Most muscles are attached to bones
- 2. What happened when the old man removed the bones from the model's legs? Idea: The model fell over.
- 3. What is the skeleton of the human body made of?
  - bones
- skin
- muscles
- 4. How many bones are in the human body? 206
- 5. Underline the 2 things that bones do.
  - · protect body parts
  - make the body move
  - · get shorter and thicker • make the body strong
- 6. Did Angela like how the skeleton looked? <u>no</u>
- 7. Name the bone on the top of the head. **5kull**
- 8. What does that bone protect? brain
- 9. What would happen if something hit the back of your brain? Idea: You'd go blind.
- 10. What would happen if something hit the **lower part** of your brain? Ideas: You couldn't breathe; you'd die.
- 11. What 2 body parts do the ribs protect?

heart and lungs

© SRA/McGraw-Hill. All rights reserved.

12. Your heart is about as big as your fist

Lesson 121

91

# 13. What might happen if something hurt your lungs? Ideas: You couldn't breathe; you'd die. 14. Does Al want to learn more about the body? Yes 15. Had Al wanted to learn about the body before this trip started? 10. 16. At the end of the story, Al and Angela were inside a large tube that was filled with liquid (Accept blood) Review Items 17. Name the largest planet in the solar system. Jupiter

19. How long does it take light to travel from the sun to Earth?

18. How long does it take Jupiter to spin around one time?

20. Where would a balloon be bigger—at 40 feet below the surface of the ocean or at 80 feet below the surface?

40 feet below (the surface)

21. Are whales fish? **no** 

10 hours

8 minutes

22. Are whales warm-blooded or cold-blooded? warm-blooded

GO TO PART C IN YOUR TEXTBOOK.

92 | Lesson 12

Name

© SRA/McGraw-Hill. All rights reserv

### **TEXTBOOK**

# 11. Idea: don't give the animal a reward

Number your paper from 1 through 18.

Skill Items 12. (Any 2:) a bone; a dog treat; a pat on

### Review Items

- 3. Name the muscle on the **front** of the upper arm. **biceps**
- 4. Name the muscle on the back of the upper arm. triceps
- 5. Name the muscle that works when you straighten your arm. triceps
- 6. Name the muscle that works when you **bend** your arm. **biceps**
- 7. How many jobs does each muscle have? 1
- 8. Name the arm muscle that gets shorter when you bend your arm. biceps
- Name the arm muscle that gets shorter when you straighten your arm. triceps
- 10. When you're training an animal, what do you do each time the animal does the trick? Idea: give the animal a reward
- 11. What do you do if the animal does not do the trick?
- 12. Name  ${\bf 2}$  things you could give a dog to reward it.
- 13. When you straighten your arm, one muscle gets longer as another muscle gets shorter. Name the muscle that gets longer.
- 14. Are killer whales fish? 10
- 15. Tell if killer whales are warm-blooded or cold-blooded. Warm-blooded
- 16. Name 3 animals that are warm-blooded. (Any 3:) bears; humans; dogs; etc.
- 17. Name 3 animals that are cold-blooded. (Any 3:) fish; sharks; reptiles; etc.
- 18. The sare the coldest places on the earth and the the hottest place on the earth. pole/equator

Lesson 121

255

# **WORKBOOK**

122

Story Items

- 1. At the beginning of the story, Al and Angela were floating in a tube. What is that tube called? blood vessel
- 2. Name the liquid that was in the tube.
- 3. What color was that liquid? black
- 4. What was making the great pounding sound that Al and Angela heard?

  the heart
- 5. Why was the pounding sound getting louder? <a href="Ldea: They were getting closer to the heart">Ldea: They were getting closer to the heart</a>.
- 6. What happens to the blood when the heart pounds?
  Idea: It moves.
- 7. The old man told Al and Angela what the heart does. He told them that the heart pumps blood through the body.
- 8. What are the doors in the heart made of? muscle(s)
- 9. Which chamber of the heart was bigger, the first one or the second one?

  the second one
- 10. How many doors were in the second chamber? 2\_\_\_\_
- 11. You can hear two sounds in the heart. The blood makes the little sound when it leaves the little **chamber**
- 12. When does it make the big sound?

  Idea: when it leaves the chamber

© SRA/McGraw-Hill. All rights reserved.

Lesson 122

# **WORKBOOK**

- 13. When Al and Angela left the heart, they were in another blood vessel. What was different about how the blood moved in that blood vessel?
  - Things kept starting and stopping.
  - Things moved at the same speed.
  - Things moved very slowly.
- 14. Where was that blood vessel going?
  - from the body
  - to the heart
  - to the lungs
- 15. What does blood get in the lungs?
  - water
  - oxygen
  - food
- 16. Things can't burn without OXYGEN
- 17. In the lungs, the color of the blood changed from black to (bright) red
- 18. What color is blood that does not have oxygen? black
- 19. What color is blood that has fresh oxygen? red

GO TO PART C IN YOUR TEXTBOOK.

"This is amazing," he shouted to Angela.

The old man said, "The red blood is now full of oxygen. It picked up the oxygen from the lungs. Could you tell when the oxygen entered the blood?"

Al said, "When the oxygen entered the blood, the blood became bright red."

"Correct." the old man said.

# Number your paper from 1 through 20.

Skill Items

Here are 3 events that happened in the story. Write **beginning**, **middle** or **end** for each event.

- 1. When they were directly in front of the door, Al noticed that he and the others were in a small chamber. middle
- 2. "Blood is very important to your body," the old man said. beginning
- 3. The walls of the blood vessel were getting very thin and transparent.

### **Review Items**

- 4. Most muscles are attached to ............................. bones
- 5. What 2 body parts do the ribs protect? heart and lungs
- 6. How many bones are in the human body? 206
- 7. How many miles does light travel in one second? 186 thousand
- 8. Write the 2 things that bones do.

(miles)

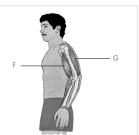
make the body movemake the body strong

- protect body parts get short and thicker
- 9. Name the bone on the top of the head. skull
- 10. What does that bone protect? brain
- 11. What would happen if someone hit the back of your brain?
- 12. What would happen if someone hit the lower part of your brain? Ideas: You'd stop breathing; you'd die.
- 13. Your heart is about as big as your . fist
- 14. What might happen if something hurt your lungs? Ideas: you couldn't breathe;
- 11. Idea: You'd go blind. you'd die

Lesson 122 259

### **TEXTBOOK**

- 15. The only muscle that can move your head **backward** is the muscle on the of your neck.
- 16. The only muscle that can move your head **forward** is the muscle on the **front**
- 17. Which letter shows the biceps?
- 18. Which letter shows the triceps? **G**
- 19. Which letter shows the muscle that straightens the arm? G
- 20. Which letter shows the muscle that bends the arm?



260

Lesson 122

# **WORKBOOK**

Name

123

### A Story Items

 When Angela and Al left the lungs, they were in a blood vessel. Where was the blood vessel going?

### Idea: to the heart

- 2. What color was the blood around them when they left the lungs?  $\mbox{\it red}$
- 3. Why was the blood that color? Idea: It had oxygen in it.
- 4. How many chambers does the heart have? 4
- 5. How many chambers did Al and Angela go through before they went to the lungs? 2
- 6. How many chambers did they go through  ${\bf after}$  they went to the lungs?  ${\bf 2}$
- 7. Where does black blood go after it leaves the heart?

  to the lunas

### , and the second se

- 8. Then the blood goes back to the heart
- 9. Then the blood goes to the ldea: body
- 10. Why does oxygen blood have to go back to the heart after it leaves the lungs? Idea: so the heart can pump it all over the body

# **WORKBOOK**

- 11. Muscles are made up of tiny (muscle) cells
- 12. When the oxygen left the blood, the color of the blood changed from red to black
- 13. Muscle cells need OXYGEN to work

### Use these words to answer the questions below:

- blood vessels that lead from the heart
- $\bullet\,$  blood vessels that lead to the heart
- 14. Which blood vessels pound every time the heart beats?

  blood vessels that lead from the heart
- 15. Which blood vessels do not pound?
- blood vessels that lead to the heart
- 16. Which blood vessels are blue?
  blood vessels that lead to the heart
- 17. Blood vessels that are blue are filled with blood vessels that are filled w
- 18. Did Angela want to take the trip around the body again? <u>100</u>
- 19. Tell why. Idea: She didn't want to go through the heart again.

GO TO PART C IN YOUR TEXTBOOK.

© SRAM/Graw-Hill. All rights reserved. Lesson 123 95 96 Lesson 123 © SRAM/Graw-Hill. All rights reserved.

"No," Angela said. "I remember how it works. I don't want to go through the heart again."

"All right," the old man said,
"Let's stay in the man's hand and
look at another part of the body."

In an instant, Al and the others were no longer inside a blood vessel. They were floating next to something that looked like a huge white rope that stretched as far as Al could see. The rope had many branches coming from it.

received

level

Number your paper from 1 through 20.

Skill Items

Write the word from the box that means the same thing as the underlined part of each sentence.

managed chilly assigned curious surrounded demanded

- 1. Bill got a present in the mail. received
- 2. The baby insisted on more food. demanded
- 3. The street they live on is flat. | eve|

### **Review Items**

- 4. How many jobs does each muscle have? 1
- 5. How many bones are in the human body? 206
- 6. Write the 2 things that bones do.
  - get shorter and thicker
  - make the body move
- make the body strong
- · protect body parts
- 7. Your heart is about as big as your . fist
- 8. What might happen if something hurt your lungs?
- 9. Things can't burn without Oxygen
- 10. In the lungs, the color of blood changes from to black, red
- 8. Ideas: You couldn't breathe; you'd die.

264 Lesson 123

### **TEXTBOOK**

- 11. What color is blood that does not have oxygen? black
- 12. What color is blood that has fresh oxygen? red
- 13. Write the letter of the storm clouds.
- 14. Write the letter of the clouds that have frozen drops of water.  $\,$
- 15. Write the letter of the clouds that may stay in the sky for days at a time.







- 16. When you teach an animal a simple trick, when do you reward the animal?
- 17. When don't you reward the animal?
- 18. Let's say that you want to teach an animal a very hard trick.

  Can the animal do the trick at first?
- 19. What will happen if the animal doesn't receive any rewards until it does the trick?
- 20. So when you're teaching the animal a hard trick, what do you reward the animal for doing? Idea: for trying to do the trick
- 16. Idea: when it does the trick
- 17. Idea: when it doesn't do the trick
- 19. Idea: It will stop trying to do the trick.

Lesson 123

265

# **WORKBOOK**

Name \_\_\_

Story Items

- 1. What do nerves do?
  - carry messages
    - carry blood
    - · carry oxygen
- 2. In which part of the man's body did Angela and Al start following the nerve? the hand
- 3. What did the pulses in the nerve feel like to Al?
  - big electric shocks
  - tiny electrical pulses
  - heavy pounding
- 4. Were there **more pulses** or **fewer pulses** when the man started tying his shoe? **More pulses**
- $5.\,$  When the nerve was cut, how many pulses did the brain receive?

### <u>ldea: none</u>

6. When would the nerves in your hand pulse faster—when you're asleep or when you burn your hand?

when you burn your hand

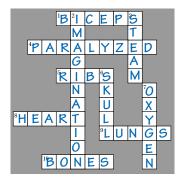
- 7. When the old man cut the nerve going from the brain to the hand, the man
  - could not move his hand
     could not feel his hand
- 8. When the old man cut the nerve going from the hand to the brain,
- the man
  - could not move his hand could not feel his hand

© SRA/McGraw-Hill. All rights reserved. Lesson 124 97

# **WORKBOOK**

Crossword Puzzle

numb triceps
biceps ice
ribs skull
air heart
lungs oxygen
imagination nerves
cerebrum bones
steam paralyzed



### Across

- 1. The muscle that bends the arm is the \_\_\_\_\_.
- 4. If you can't move a part of your body, that part is \_\_\_\_\_.
- 5. Your protect your lungs and your heart.
- Your pumps blood through your body.
- 9. If something hurt your wouldn't be able to breathe.
- 10. Most muscles are attached to

# Down

- The part of your mind that can think of things that might happen is your
- 3. The gas form of water is
- 6. Your protects your brain.
- 7. Things can't burn without

GO TO PART C IN YOUR TEXTBOOK.

18 Lesson 124 © SRA/McGraw-Hill. All rights reserved

# Number your paper from 1 through 20. **Story Items**

- 1. The nerves that tell the brain what the hand feels go from the to the hand, brain
- 2. The nerves that tell the hand how to move go from the the brain, hand
- 3. The nerves that tell the foot how to move go from the to the brain, foot
- 4. The nerves that tell the brain what the foot feels go from the to the foot, brain

Skill Items

### The injury to his spinal cord paralyzed him.

- 5. What word means that a part of the body can't move? paralyzed
- 6. What word means a serious hurt? injury
- 7. What 2 words name the bundle of nerves inside the backbone? Spinal cord

### **Review Items**

- 8. Things can't burn without ................................ oxygen
- 9. In the lungs, the color of blood changes from to black, red
- 10. How many chambers does the heart have? 4
- went to the lungs? 2
- 13. Where does black blood go after it leaves the heart? to the lungs
- 15. Then the blood goes to the .............................. Idea: body
- leaves the lungs? Idea: to get pumped through the body

269

### TEXTBOOK

Here's how big a balloon is at 20 meters below the surface of the ocean.



Here's the same balloon when it is deeper or not as deep.

- 18. Write the letter of each balloon that is not as deep as balloon  $\underline{\mathbf{x}}$ . D,  $\underline{\mathbf{E}}$
- 19. Write the letter of the balloon that is closest to the surface. 20. Write the letter of the balloon that is deepest.











- 11. How many chambers did Al and Angela go through **before** they
- 12. How many chambers did they go through after they went to the lungs? 2
- 14. Then the blood goes back to the ........ heart
- 16. Why does oxygen blood have to go back to the heart after it
- 17. When oxygen leaves the blood, the color of the blood changes from to red, black

270

# **WORKBOOK**

Name



- 1. What happens to light when it goes through a magnifying glass?
  - It goes straight.
  - It goes faster.
  - · It bends.
- 2. If you make a picture of a tree using a magnifying glass, the top of the tree will be at the **bottom** of the picture.
- 3. The eye is like a magnifying glass
- 4. Where does light enter the eyeball?
- side
- 5. Where does the picture form?
- back

### Story Items

6. What do nerves that lead from the brain to the hand tell the hand?

### Ideas: what to do: how to move

- 7. What do nerves that lead from the hand to the brain tell the brain? <u>Idea: what the part feels</u>
- 8. What is your backbone made of? little (hollow) bones
- 9. Name the bundle of nerves that goes up and down through the middle of your backbone. spinal cord
- 10. What's strange about the bones in the backbone?
  - They are hollow.
  - They are solid.
  - · They are soft.

© SRA/McGraw-Hill. All rights reserved

Lesson 125

# **WORKBOOK**

- 11. When Al and Angela left the spinal cord, they entered the brain
- 12. What does your cerebrum do? Idea: thinking
- 13. When Al and Angela first entered the brain, they were in a part that controls some things the body does. Name 2 of those things.

(Any 2:) sweating; breathing; heart pumping; etc.

14. When Al and Angela moved up through the brain, they came to another part. Did that part have more nerves or fewer nerves?

more nerves

- 15. Name that part of the brain. Cerebrum
- 16. Which part of your brain works when you think about what you are seeing? cerebrum

GO TO PART D IN YOUR TEXTBOOK.

Lesson 125

© SRA/McGraw-Hill. All rights reserved

of the brain that is working. When you think about something that you see, this is the part that does the thinking. When you think about what somebody says to you, you are using this part.'

Angela asked, "What did you say this part of the brain is called?"

Al told her

"Correct," the old man said. "The thinking part of the brain is the cerebrum.'

Angela and Al looked at the nerves that tangled this way and that way through the cerebrum. "Wow!" Angela exclaimed.

Number your paper from 1 through 24.

Write the word from the box that means the same thing as the underlined part of each sentence.

> applauded concluded warm selecting comfortable chilly observing incredible appearing

- 1. They were watching the baby birds. observing
- 2. Her hands were sort of cold. Chilly
- 3. The parents clapped at the end of the play. applauded

Use the words in the box to write complete sentences.

spinal cord biceps indeed muscle knee paralyzed triceps heart 4. The is bigger than the muscle, biceps, muscle, biceps

5. The to his him. injury, spinal cord, paralyzed

### **Review Items**

- 6. Which has more gravity, Jupiter or Io? Jupiter
- 7. Which is **smaller** than Earth? **I**o
- 8. Where can you jump 8 feet high?

275 Lesson 125

# **TEXTBOOK**

- 9. How long does it take light to travel from the sun to Earth? 8 minutes
- 10. Muscles are made up of tiny ... (muscle) cells
- 11. Blood vessels that are blue are filled with
  - red blood dark blood
- 12. Muscle cells need to work. Oxygen
- 13. The nerves that tell the brain what the foot feels go from the to the foot, brain
- 14. The nerves that tell the foot how to move go from the \_\_\_\_\_ to the brain, foot
- 15. If you cut the nerve going from your brain to your arm, you could not your arm. Move
- 16. If you cut the nerve going from your arm to your brain, you could not vour your arm. feel
- 17. Write the letter of the blood vessels that pound every time the heart beats. 2
- 18. Write the letter of the blood vessels that do not pound.
- 19. Write the letter of the blood vessels that are blue.
  - a. blood vessels that lead from the heart
    - b. blood vessels that lead to the heart
- 20. Which letter on the map shows Alaska?
- 21. Which letter shows Canada?
- 22. Which letter shows the main part of the United States? 5
- 23. Which 2 letters show where Eskimos live? T, D



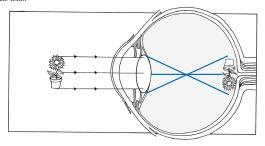
24. How warm is it during winter in Alaska? Idea: very cold

# **WORKBOOK**

Name



 $1.\,$  Draw lines to show where the paths of light will go when they go through the lens.



### Story Items

2. What did the old man do to scare the man?

Idea: put a lion in the room

- 3. What happened to the nerves in the man's brain?
  - They pulsed more rapidly.
  - · They pulsed more slowly
  - They became cooler.
- 4. What did the nerves do after the lion disappeared?
  - They pulsed more rapidly.
  - They pulsed more slowly.
  - They became cooler.

# **WORKBOOK**

5. The nerves from the eye go to the of the brain. front. side back

7. What is the name of the round window in the chamber?

- 6. After Al and Angela left the brain, they went inside a great round chamber. What was that chamber?
  - · the heart · the eye · the lungs

pupil

- 8. On which part of the man's eye could Al and Angela see an image of what the man was looking at?
  - lens • pupil
- 9. What was strange about the image they saw?

Idea: It was upside down.

10. While Al and Angela were looking at the image, the man's shoes got bigger. Tell why. Idea: He was bending down (toward his shoes).

### **Review Items**

- 11. Name the bundle of nerves that goes up and down through the middle of your backbone. spinal cord
- 12. What's strange about the bones in the backbone?
  - · They are square.
  - They are hollow.
  - They are soft.
- 13. When you think, what part of your brain are you using?

<u>cerebrum</u>

GO TO PART D IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved 101 Lesson 126

Number your paper from 1 through 23.

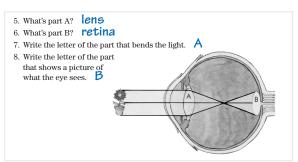
Use some of these words to answer items 1 and 2.

lens retina eyeball pupil black nerv

- 1. What is the name of the hole at the front of the eye? pupil
- 2. What color is that part? black
- 3. What's strange about the images that are formed in your eye?

4. Which letter shows where the pupil is?





3. Idea: They're upside down.

Lesson 126 281

### **TEXTBOOK**

### **Review Items**

- 9. How many miles does light travel in one second? 186 thousand
- 10. What else travels as fast as light? Idea: nothing (miles
- 11. How long does it take sound to travel one mile? 5 seconds
- 12. When would the nerves in your toe pulse faster—when you're asleep or when you hurt your toe? **when you hurt your toe**
- 13. The nerves that tell the brain what the leg feels go from the to the leg, brain
- 14. The nerves that tell the leg how to move go from the the brain, leg
- 15. If you make a picture of a tree using a magnifying glass, the top of the tree will be at the of the picture.
- 16. Which letter on the map shows Alaska A
- 17. Which letter shows Canada?
- 18. Which letter shows the main part of the United States?
- 19. Which 2 letters show where Eskimos live? A, P



- 20. How warm is it during winter in Alaska? Idea: very cold
- 21. If you move up too fast from very deep water, you may get the bends
- 22. What forms in your blood as you go up too fast? bubbles
- 23. When you go up very fast, is there more pressure or less pressure on your body?
- 282 Lesson 126

# **WORKBOOK**

Name \_\_\_\_\_

A Story Items

1. The retina is covered with

• nerves

• hair

nair • muscles

- 2. Each nerve in the retina feels the light and sends a message to the ldea: (back of) the brain
- 3. What would a person see if the big nerves from the eyes to the brain were cut? Ideas: nothing; the person would be blind.
- 4. What does the lens of your eye do to light?
  - bends it
- changes the colors
- magnifies it
- - a box
- a spiral
- a circle
- 6. What is the inside of the ear's chamber lined with?
  hairs

<u>nairs</u>

7. What is each hair inside the ear connected to?

a nerve

- 8. When the hair moves, the nerve pulses/vibrates/moves
- 9. What happens if the hair vibrates very hard?
  - The nerve vibrates hard.
  - The nerve vibrates lightly.
  - The nerve feels colors
- 10. What kinds of sounds are picked up in the biggest part of the chamber high sounds or low sounds? Low sounds
- 11. What kinds of sounds are picked up in the smallest part of the chamber—high sounds or low sounds? high sounds

# **WORKBOOK**

Write  $\mathbf{big}$  or  $\mathbf{small}$  to tell which part of your ear chamber would pick up each sound.

- 12. Big church bell big
- 13. Low voice big
- 14. Very high voice **5mall**
- 15. High whistle **5mall**

### Review Items

- 16. Where does light enter the eyeball? front (of eyeball)/lens/pupil
- 17. Where does the picture form? back (of eyeball)/retina
- 18. The nerves from the eye go to the of the brain.
  - top back from
- 19. On which part of the man's eye could Al and Angela see an image of what the man was looking at?
  - lens retina pupil
- 20. The more water the glass has, the \_\_\_\_\_ the sound it makes
  - lower higher
- 21. Underline the glass that will make the lowest ring.
- 22. Circle the glass that will make the highest ring



GO TO PART C IN YOUR TEXTBOOK.

4 Lesson 127 © SRA/McGraw-Hill. All rights reserved

hairs will move in that part of the ear."

The old man clapped his hands, smiled, and then he put his arms around Al and Angela. "You are both smart and I am proud of you."

Al smiled. Angela smiled. The old man smiled. Then, "tweeeeet." The hairs near the small end of the chamber started to vibrate. The old man said, "That's all there is to the inner ear. High sounds are picked up at the small end of the chamber. Lower sounds are picked up in the middle of the chamber. And the lowest sounds are picked up where the chamber is the largest."

Al looked at the hairs inside the ear. He didn't say anything. He just observed them and thought.

# Number your paper from 1 through 19.

Skill Items

Here are 3 events that happened in the story. Write  ${\bf beginning,}$   ${\bf middle}$  or  ${\bf end}$  for each event.

- 1. Then "tweeeeet." The hairs near the small end of the chamber started to vibrate.
- 2. Here's what somebody said: "The more the hair vibrates, the harder the nerve pulses." **middle**
- 3. By looking at the image on the retina, they could see a picture of everything the man saw. **beginning**

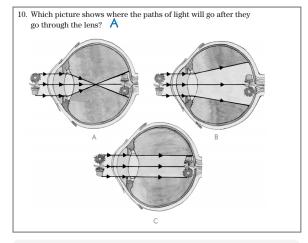
### **Review Items**

- 4. What do nerves that lead from the brain to the foot tell the foot?
- 5. What do nerves that lead from the foot to the brain tell the brain? Idea: what the foot feels
- 6. Which part of your **brain** works when you **think** about what you are hearing? **cerebrum**
- 7. What is the name of the hole at the front of the eye? pupil
- 8. What color is that part? black
- 9. What part of the eye is just behind the hole?

### 4. Idea: how to move

286 Less

### **TEXTBOOK**



- 11. When you dive down 33 feet, you have times the pressure on you that you have at the surface.
- 12. When you dive down 66 feet, you have on you that you have at the surface. 3
- 13. In what country are the states of Colorado and Utah? United States
- 14. Name the mountains you drive over to get from Colorado to Utah. Rocky Mountains
- 15. In which direction do you go to get from Colorado to Utah? West
- 16. Name 2 cities in Colorado. Denver; Greeley
- 17. Name one city in Utah. Salt Lake City

Lesson 127

287

### **TEXTBOOK**

18. Which letter shows Colorado? H
19. Which letter shows Utah?

# **WORKBOOK**

Name \_\_\_\_\_

128

### Story Items

1. After the trip, the old man gave Al and Angela a book. What was the title of the book?

The Human Body

- 2. Why did he give the book to them? Idea: so they could study for the test
- 3. Did the old man want the book back? 10
- 4. When will the old man give Al and Angela their test on the human body?
  Monday
- 5. Was there snow on the ground when Al and Angela left the old man's store?
  YES
- 6. About how much snow was on the ground the next morning? ldea: (almost) a yard
- 7. What did Al's mother ask him to do the next morning?

  Idea: shovel (snow off) the sidewalk
- 8. Who worked with Al? Angela

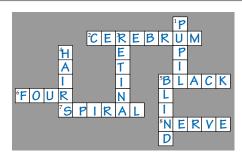
38 Lesson 127

© SRA/McGraw-Hill. All rights reserved.

Lesson 128

### Crossword Puzzle

spiral	numb	nerve	curved	blind
backbone	pupil	vessel	retina	hairs
paralyzed	four	cerebrum	red	black



### Across

- 5. Blood that does not have fresh oxygen is
- 6. The heart has chambers.
- 7. The chamber inside the ear is shaped like a
- 8. Something in your body that carries messages is a

- 1. The hole at the front of the eye is called the
- 3. The part of the eye where pictures are formed is called the
- 4. The ear's chamber is lined with
- 5. A person who cannot see is

GO TO PART C IN YOUR TEXTBOOK.

### TEXTBOOK

that said "Bones do two things" Al said, "I know what those things are." He explained them.

For over four hours, Angela and Al went through the book and talked about the things they read. They discussed the heart and the blood. They talked about the two kinds of nerves that are in the body. They discussed the brain, the eye and the ear. When they were finished with the book, it was getting dark in the

"Hey, Mom," Al called. "What time is it?"

"Four o'clock," she called from the other room.

Al said "I've had enough studying for a while. Let's go outside and I'll give you a lesson in throwing snowballs."

Angela said. "How can you give lessons in something you don't know how to do?"

They went outside, where the snow was still falling. The walk that they had shoveled earlier was covered with about three inches of snow. Al ran behind a tree, made a large wet snowball, stood up and said, "Here's how to . . ." Splat. Right in his chest.

Number your paper from 1 through 22.

Story Items 1. Idea: It was almost Christmas.

- 1. Why were people out shopping for presents?
- 2. Why did Al feel sad about Christmas?
- 3. How long did Al and Angela study the book the old man gave them? (over) 4 hours Idea: had a
- 4. What did they do outside after they finished studying? snowball fight

### Review Items

- 5. In what form of matter is air on Pluto? **Solid**
- 6. In what form of matter is air on Earth? gas
- 7. In what form of matter is air on Saturn? liquid
- 8. When things are hard, what form of matter are they? Solid
- 9. When hard matter gets hotter, which form does it change into? liquid
- 10. When matter gets still hotter, which form does it change into? gas
- 2. Idea: He didn't have any money for presents.

# **TEXTBOOK**

- 11. If you make a picture of a tree using a magnifying glass, the bottom of the tree will be at the of the picture. top
- 12. Where would a balloon be bigger—at 80 feet below the surface of the ocean or at 20 feet below the surface? 20 feet below

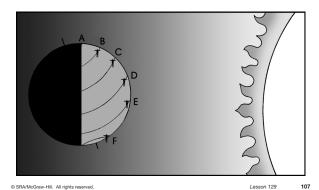
Write  $\mathbf{big}$  or  $\mathbf{small}$  to tell in which part of your ear chamber you would pick up each sound.

- 13. very high voice **Small**
- 14. low voice big
- 15. high whistle small
- 16. big church bell big
- Name the bundle of nerves that goes up and down through the middle of your backbone. Spinal cord
- 18. What's strange about the bones in the backbone?
- 19. What's strange about the images that are formed in your eye?
- 20. The retina is covered with
- hair nerves blood skeletons, animals
- 22. An underwater hill that is covered with coral is called a coral \_\_\_\_\_. reef
- 18. Idea: They're hollow.
- 19. Idea: They're upside down.

# **WORKBOOK**

Name

- 1. Look at the picture below. Is the side of the earth that's closest to the sun in daylight or in darkness? in daylight
- 2. Is the North Pole tilting toward the sun or away from the sun? away from the sun
- 3. So does this picture show our summer or our winter? Winter
- 4. As the earth turns around, which person is in darkness all the time?
- 5. Which person is in daylight all the time?
- 6. Write the letters of all the persons who are in daylight some of the time and darkness some of the time. B, C, D, E



### Story Items

- 7. Who made fun of Al in school? Homer
- 8. How many questions were on the test that Al took in school? 40
- 9. What were most of the questions about?
- <u>ldea: the human body</u>
- 10. Who did better on the test, Homer or Al?
- 11. What grade did Al get on the test? A plus
- 12. How many questions did Angela miss?

Idea: none

13. Why didn't the old man give a test to Al and Angela?

Idea: because (he knew) they had both (taken and) passed the test.

### Review Items

Write the missing numbers in the blanks.

0feet	surface pressure
14. <b>33</b> feet	2 times surface pressure
15. <u>66</u> feet	3 times surface pressure
16.100 feet	4 times surface pressure

GO TO PART D IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserve

### **TEXTBOOK**

As they went into the store, the bell went ding, ding. Inside, they waited.

Suddenly the old man was standing in front of them. He said, "There will be no test for you today."

Al looked at Angela. Then he looked back at the old man. Al asked, "But we're ready for the test. Why can't we take it now?" The old man smiled. He said,
"You can't take it because you have
already taken it. I happen to know
that both of you correctly answered
all the questions on a science test.
So why should I waste time giving
you another test? Simply tell me
where you want to go and what you
want to see and we will go on
another trip together."

Number your paper from 1 through 24.

Skill Items

A single star was near the horizon.

- 1. What word names the line between the earth and the sky? **horizon**
- 2. What word means one? single

### Review Items

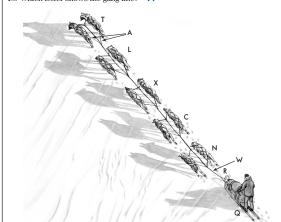
- 3. What is the hottest form of any matter? **935**
- 4. What is the next-hottest form of any matter? liquid
- 5. What is the coldest form of any matter? **Solid**
- 6. Do all things turn into a gas at the same temperature?  $\phantom{a}$  100  $\phantom{a}$
- 7. What are tiny parts of matter called? molecules
- 8. When sand molecules are as cold as they can get, how much do they move? Idea: not at all
- 9. Do they move **more** or **less** at room temperature? **More**

29

Lesson 12

# **TEXTBOOK**

- 10. Which letter in the picture shows the wheel dogs? N
- 11. Which letter shows the lead dogs?
- 12. Which letter shows the swing dogs?
- 13. Which letter shows where the musher is most of the time? Q
- 14. Which letter shows the tug lines? A
- 15. Which letter shows the gang line? W



### **TEXTBOOK**

- 16. In which form of matter are molecules farthest apart? gas
- 17. In which form of matter are molecules closest together? Solid
- 18. What would a person see if the big nerves from the eyes to the brain were cut?
- 19. What is each hair inside the ear connected to? a nerve
- 20. What kinds of sounds are picked up in the smallest part of the ear chamber—high sounds or low sounds? high sounds
- 21. When you open a bottle of soda pop, what happens to the pressure inside the bottle? Idea: It goes down.
- 22. What forms in the soda pop? bubbles
- Most sled-dog teams have an number of dogs.
  - even odd
- For the Iditarod, a sled-dog team can't have more than dogs. 16
- 18. Ideas: nothing; the person would be blind.

Lesson 129

Lesson 129

# 2. Idea: make the body strong and protect body parts Number your paper from 1 through 28.

- 1. How many bones are in the human body? 206
- 2. Name the  ${\bf 2}$  things that bones do.
- 3. Things can't burn without OXYGEN
- 4. In the lungs, the color of blood changes from to black, red
- 5. What color is blood that has fresh oxygen? red
- 6. What color is blood that does not have oxygen? black
- 7. How many chambers does the heart have? 4
- 8. How many chambers did Al and Angela go through **before** they went to the lungs?  $\frac{2}{2}$
- 9. How many chambers did they go through **after** they went to the lungs?
- 10. Where does black blood go after it leaves the heart? to the lungs
- 11. Then the blood goes back to the ....... heart
- 12. Then the blood goes to the .............................. Idea: body
- 13. If you cut the nerve going from your brain to your hand, you could not your hand. Move
- 14. If you cut the nerve going from your hand to your brain, you could not your hand. feel
- 15. Name the bundle of nerves that goes up and down through the middle of your backbone. spinal cord
- 16. What's strange about the bones in the backbone? They're hollow.
- 17. Which part of your **brain** works when you **think** about what you are seeing? cerebrum They're
- 18. What's strange about the images that are formed in your eye? upside

Write **big** or **small** to tell in which part of your ear chamber you **down**. would pick up each sound.

- 19. big church bell big
- 20. high whistle Small
- 21. low voice big
- 22. very high voice small

### TEXTBOOK

23. Which picture shows where the paths of light will go after they go through the lens?

Skill Items

For each item, write the underlined word or words from the sentences in the box.

> The injury to his spinal cord paralyzed him. A single star was near the horizon

- 24. What underlining names the bundle of nerves inside the backbone? **Spinal cord**
- 25. What underlining means one? Single
- 26. What underlining means a serious hurt? injury
- 27. What underlining names the line between the earth and the sky? horizon
- 28. What underlining means that a part of the body can't move? paralyzed

END OF TEST 13

# **WORKBOOK**

Name

Story Items 1. Who decided where to go on the next trip?

- 2. Where did they go? North Pole
- 3. Why was it dark there?

© SRA/McGraw-Hill. All rights reserved

the old man

- It was winter.
- · It was summer.
- 4. Why did Al's eyes start to burn? Idea: It was so cold
- 5. What was the temperature at the North Pole?

### <u>60 degrees below zero</u>

6. What would that cold air do if you breathed too hard?

### <u>Idea: freeze your lungs</u>

7. How much daylight is there during winter at the North Pole? <u>Idea: none</u>

8. How much nighttime is there during the summer at the North Pole? Idea: none

9. What season do we have when the North Pole tilts toward the sun? Summer

10. What season do we have when the North Pole tilts away from the sun? winter

**WORKBOOK** 

The old man made three tiny forms appear at the North Pole of the model Earth. Fill in the blanks with dark or light.

11. When it was summer, those forms staved on the \_\_\_\_\_ half of the earth.

12. When it was winter, those forms staved on the \_\_ half of the earth.

Review Items

- 13. Muscles are made up of tiny (muscle) cells
- 14. Blood vessels that are blue are filled with
  - dark blood
    - · red blood

15. Muscle cells need OXYGEN to work.

Use these words to answer the questions:

- . blood vessels that lead from the heart
- · blood vessels that lead to the heart
- 16. Which blood vessels are blue? blood vessels that lead to the heart
- 17. Which blood vessels pound every time the heart beats? vessels that lead from the heart
- 18. Which blood vessels do not pound? blood vessels that lead to the heart

GO TO PART C IN YOUR TEXTBOOK. 110 © SRA/McGraw-Hill. All rights reserved Lesson 131

Al watched the earth spin around one time, two times, three times. Then he pointed to the little people who were at the North Pole. He said. "Now the North Pole is always on the half of the earth that is lit up by the sun. The earth turns around and around but the North Pole is always in the sun."

The old man added, "That means the sun shines all the time during summer at the North Pole. There is no time when the sun sets. You can see the sun all day and all night."

The old man snapped his fingers and the models of the sun and the earth disappeared. It was now so dark that Al couldn't see anything except spots in front of his eyes. He rubbed his eyes as he listened to what Angela was saying. "So it is dark at the North Pole throughout

the whole winter" she said "The sun never shines because the North Pole tilts away from the sun and is on the half of the earth that is always dark."

"That is absolutely right," the old man responded.

Then the old man said, "I want you to feel winter at the North Pole for a few minutes. Think about what it would be like to live here.

The wind howled and Al felt it blowing snow in swirls around him. He could feel how cold it was. He wondered how anything could grow here or live here. What would they eat? How would they stay warm? How would they keep from going crazy even if they could stay alive? The strongest feeling that Al had was that he wanted to get out of this terrible place.

# Number your paper from 1 through 22.

2. A star was near the single, horizon

Use the words in the box to write complete sentences. paralyzed difference horizon injury blood vessel chamber single lungs spinal cord 1. The to his him. injury, spinal cord, paralyzed

306

### TEXTBOOK

### Review Items

- 3. The nerves that tell the brain what the hand feels go from the
- 4. The nerves that tell the hand how to move go from the the brain, hand

Write big or small to tell in which part of your ear chamber you would pick up each sound.

- 5. high whistle small
- 6. very high voice small
- 7. big church bell big
- 8. low voice big
- 9. Which letter shows the part of the earth where it is night? G





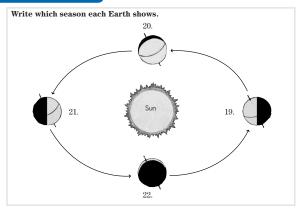
- 11. Which pole is at the top of the earth? North Pole
- 12. Which pole is at the bottom of the earth? South Pole
- 13. How many miles does light travel in one second? 186 thousand (miles)
- 14. What else travels as fast as light? Idea: nothing
- 15. How many suns are in the solar system?
- 16. How many planets are in the solar system? 9
- 17. Name the bundle of nerves that goes up and down through the middle of your backbone. spinal cord
- 18. What's strange about the bones in the backbone?

Idea: They're hollow.

Lesson 131

307

### **TEXTBOOK**



- 19. summer
- 20. fall
- 21. winter 22. spring

# **WORKBOOK**

Name



- Story Items
- 1. Do any two snowflakes look **exactly** alike? 100
- 2. How are all snowflakes the same? Idea: They have (6) spokes.
- 3. The old man made each snowflake as big as a basketball
- 4. About how deep is the snow at the North Pole? Idea: (over) 70 feet
- 5. What is under the snow at the North Pole?

water; ocean

6. Which would be harder, snow that is 30 feet below the top of a pile or snow that is 45 feet below the top of the pile?

45 feet below

- 7. How much land is under the North Pole? Idea: none
- 8. How many states in the United States are as big as the North Pole? <u>ldea: none</u>

308 Lesson 131

© SRA/McGraw-Hill. All rights reserved

### Review Items

9. The picture shows the sun and two balls. Fix up the balls so that half of each ball is in sunlight and half is in shadow.







- 10. Write the letter of the thing that travels the slowest.
- Write the letter of the thing that travels the fastest. 2
  - a. light b. racing car
- c. jet plane d. sound
- e. rocket
- 12. Write the letters of the 5 things that are matter in the solid form.

a, c, a, i, i

13. Write the letters of the 4 things that are matter in the liquid form.

e, f, h, k

14. Write the letters of the 3 things that are matter in the gas form.

### <u>b, d, I</u>

a. rock

b. smoke

c. glass

- d. air
- e. water f. milk
- g. brick h. tea i. ice
- i. wood k. juice l. steam

GO TO PART C IN YOUR TEXTBOOK.

112

### TEXTBOOK

pressure that it packs the snow together. That's why the snow down here is almost like ice.'

"Correct," the old man said. "Let's go down to the bottom."

The hole got deeper. Angela, Al and the old man went down another 10 feet and stopped. They did the same thing again and again. Still, they had not reached the bottom of the snow.

"We are now 70 feet below the surface of the snow," the old man said. "Get ready for a surprise. We are going to see what is at the bottom of the snow."

The hole got a little deeper. Suddenly Angela, Al and the old man were no longer in the snow and ice. They were underwater.

The old man said. "There is no land at the North Pole. There is just snow and ice. The snow and ice float in water."

"No land?" Angela asked.

"That's right," the old man replied. "The North Pole is bigger than any state in the United States. But it is nothing but ice and snow floating in the ocean."

"Wow!" Angela exclaimed. "Wow!" Al exclaimed.

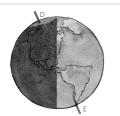
Number your paper from 1 through 26.

### **Review Items**

- 1. Where does black blood go after it leaves the heart? to the lungs
- 2. Then the blood goes back to the . heart
- 3. Then the blood goes to the ............................... ldea: body
- 4. When you think, what part of your brain are you using? cerebrum
- - blood
- $\bullet$  bones
- nerves
- 6. What would a person see if the big nerves from the eyes to the brain were cut?
- 7. During what season is it dark at the North Pole? winter
- 8. How cold does it often get during that season?
  - $\bullet$  200 degrees below zero
  - $\bullet$  60 degrees below zero
  - 90 degrees below zero
- 6. Ideas: nothing; the person would be blind.

# **TEXTBOOK**

- 9. Which letter shows the North Pole?
- 10. Which letter shows the South Pole?



The old man made three tiny forms appear at the North Pole on the model Earth. Write dark or light for each blank.

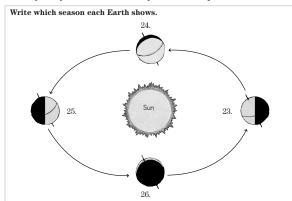
- 11. When it was **winter**, those forms stayed on the half of the model Earth. dark
- 12. When it was **summer**, those forms stayed on the half of the model Earth. light
- 13. What season do we have when the North Pole tilts away from the sun? winter
- 14. What season do we have when the North Pole tilts toward the sun? Summer
- 15. How many suns are in the solar system?
- 16. How long does it take light to travel from the sun to Earth? 8 minutes
- 17. How long does it take sound to travel one mile? 5 seconds
- 18. If you're underwater 100 feet deep, the pressure is much greater than it is on land. How many times greater is it? 4
- 19. When divers are that deep, how long should they take to return to the surface of the water? at least/about 2 minutes
- 20. What may happen to the divers if they go up faster than that?

Idea: The diver may get the bends.

# **TEXTBOOK**

### 22. Idea: They are too small.

- 21. Name the two poles. North Pole, South Pole
- 22. Why can't you see molecules when you look at an object?



- 23. summer
- 24. fall
- 25. winter
- 26. spring

313

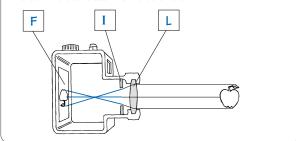
Lesson 132

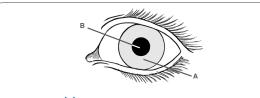
133

Name\_



- 1. Draw lines to show where the paths of light will go after they go through
- 2. Make an F in the box that shows where the film is
- 3. Make an L in the box that shows where the lens is
- 4. Make an I in the box that shows where the iris is.





5. What is part A? iris

6. What is part B? pupil (Do not accept lens.)

Lesson 133

113

# **WORKBOOK**

### Story Items

- 7. Fill in the blanks with toward or away from. During our winter, the North Pole tilts away from
- the sun, and the South Pole tilts toward 8. Fill in the blanks with dark or light.
- During our winter, the North Pole is always dark and the South Pole is always light
- 9. How many hours does it take the sun to make a full circle at the poles?
- 10. What's under all the snow at the North Pole?

### water; ocean

11. What's under the snow at the South Pole?

### land: rock

- 12. How many square miles is the land under the South Pole?
  - 1 million
    - 5 hundred
- 5 million
- 13. About how deep is the snow at the South Pole?

### Idea: (over) a mile

14. Where is the snow deeper, at the North Pole or at the South Pole? South Pole

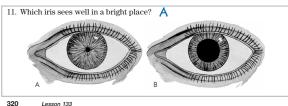
GO TO PART D IN YOUR TEXTBOOK.

# **TEXTBOOK**

# Number your paper from 1 through 24.

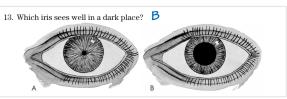
- 1. Name the part of the eye where pictures are formed. retina
- 2. Name what's inside the camera where pictures are formed. film
- 3. What part of a camera bends the light that goes through it?
- 4. What part of an eye is like the lens of a camera? lens
- 5. What part of a camera lets just enough light into the camera? iris
- 6. What part of an eye is like the iris of a camera? iris
- 7. A  $\underline{\operatorname{camer}}$  a lens bends light that goes through it because the lens
  - straight • big curved
- 8. If you're taking a picture where it's very bright, you would set the iris of a camera so the hole is
  - large • small
- 9. If you're taking a picture where there is very little light, you would set the iris so the hole is  $\hfill \square$  . large





# **TEXTBOOK**





**Skill Items** 

Write the word from the box that means the same thing as the underlined part of each sentence.

> decorated noon permitted chamber protected midnight relaxed window

- 14. The bell rang at 12 o'clock at night. midnight
- 15. They took it easy at the beach. relaxed
- 16. The TV was in a special room. chamber

### **Review Items**

- 17. What is the chamber inside the ear shaped like? Spiral
- 18. What is the inside of the ear's chamber lined with? hairs
- 19. Do any two snowflakes look **exactly** alike? 100
- 20. All snowflakes are the same because they all have spokes. 6
- 21. About how deep is the snow at the North Pole? 70 feet
- 22. What is under the snow at the North Pole? water; ocean
- 23. How much land is under the snow at the North Pole? Idea: none
- 24. Which would be harder, snow that is **40 feet below** the top of a pile or snow that is **20 feet below** the top of the pile? **40 feet below**



322 Lesson 133

# **WORKBOOK**

A Story Items

Name

1. A man gave Al and Angela each 5 dollars. Tell why. Idea: They had pushed his car out of the

2. Why was the man in a hurry to get home? Idea: It was his wife's birthday.

3. Why did Al want to get some more money? Idea: so he could buy presents

4. About how deep was the snow in front of Al and Angela's house? 2 feet

5. Why were the schools going to be closed the next day? Idea: because of the deep snow

6. How had Al felt about school before the old man's trips? Idea: He didn't like it.

7. How does Al feel about school now? ldea: He likes it.

8. Why does he feel that way about school now?

· He's a poor student.

- · He's a good student.
- He doesn't like school.

9. What is Angela and Al's last name? **Johnson** 

Lesson 134

115

### **WORKBOOK**

10. What was the title of the book Al and Angela got in this story?

The Poles

- 11. Who sent the book to them? the old man
- 12. The ship named Endurance was stuck in ice at the South Pole
- 13. How many men on that ship died? Idea: none
- 14. What happened to Scott and the men with him? Idea: They all died.
- 15. What was strange about the food in Scott's camp when people found it fifty

Idea: It was still good.

### Review Items

- 16. What is each hair inside the ear connected to? a nerve
- 17. What kinds of sounds are picked up in the biggest part of the ear chamber high sounds or low sounds?

low sounds

Lesson 134

18. What part of a camera bends the light that goes through it?

116

19. What part of a camera lets just enough light into the camera?

GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

# **TEXTBOOK**

Number your paper from 1 through 18.

**Skill Items** 

Here are 3 events that happened in the story. Write beginning, middle or end for each event.

- 1. The adventure of Robert Scott and four other men did not have a happy ending. end
- 2. Now the car started moving faster and faster as it got into the tracks that other cars had made. middle
- 3. Suddenly, everything started to grow dark, and Al realized that he was back in the store on Anywhere Street. beginning

### Troops of baboons moved across the veld.

- 4. What word refers to groups of baboons? troops
- 5. What word names a large member of the monkey family? baboons
- 6. What word refers to a large field in Africa? Veld

### Review Items

Write toward or away from for each blank.

During our winter, the North Pole tilts 7. the sun and the South Pole tilts 8. the sun.

Write dark or light for each blank.

During our winter, the North Pole is always 9. and the South Pole is always 10.

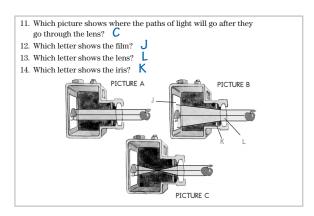
7. away from

8. toward

9. dark

10. light

Lesson 134



- How many hours does it take the sun to make a full circle around a person at the North Pole?
- 16. What's under the snow at the North Pole? Water; ocean
- 17. How deep is the snow at the South Pole? (over) a mile
- 18. Where is the snow deeper, at the North Pole or at the South Pole? at the South Pole

328 Lesson

# WORKBOOK

- 10. Why were most of the stores closed? Ideas: because there was so much snow; because of the snowstorm
- 11. Where did Al and Angela go after breakfast?

  Idea: to the old man's store
- 12. What did the old man want Al and Angela to do when they first got to his store? Idea: shovel his walk
- 13. What did the old man give each of them for doing that?
- 14. Did Al and Angela go to the store next door at the same time?
- 15. What was the store next door filled with when Al went there?
- 16. What was the store filled with when Angela went there?

  Idea: books and (women's) sweaters
- 17. What did Al buy for his mother? a toaster
- 18. What did Al buy for Angela? a wallet
- 19. How much did each present cost? 1 dollar
- 20. What did Angela buy for Al? a book
- 21. What did Angela buy for her mother? **a sweater**

GO TO PART D IN YOUR TEXTBOOK.

on 135 © SRA/McGraw-Hill. All rights reserv

### **WORKBOOK**

Name

135

A

- 1. What are groups of baboons called? troops
- 2. Name an animal that looks something like a baboon but is much bigger.

  aorilla
- 3. Name an animal in the cat family that is the size of a big dog. **leopard**
- 4. Name an animal in the whale family that some people think is the smartest.
- Is that animal warm-blooded or cold-blooded? warm-blooded
- 6. How long ago did saber-toothed tigers disappear from the earth? 25 thousand years ago
- 7. It is called a **saber-toothed tiger** because it had **teeth** like sabers.

### Story Items

- 8. What did Al want to read about at the library? **Idea: the poles**
- 9. Was the library open? 10

© SRA/McGraw-Hill. All rights reserve

Lesson 135

117

# **TEXTBOOK**

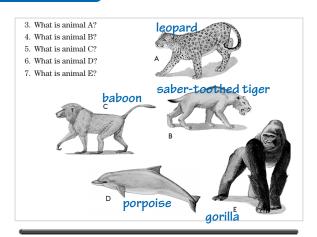


After Al came back to the old man's store, Angela went to the store next door. While she was gone, Al talked to the old man. When she came back, she said, "That's the strangest store I have ever seen. It had nothing but books and women's sweaters." Al had a pretty good idea of what he was going to get from Angela for Christmas.

Number your paper from 1 through 20.

Skill Item





### **Review Items**

- 8. How many hours does it take the sun to make a full circle around a person at the North Pole? 24
- 9. The ship named *Endurance* was stuck in ice at the South Pole
- 10. What happened to Scott and the men with him? Idea: They all died.
- 11. What season do we have when the North Pole tilts **toward** the sun? **SUMME**
- 12. What season do we have when the North Pole tilts **away from** the sun? **winter**
- 13. During what season is it dark at the North Pole? winter
- 14. How cold does it often get during that season?
  - 200 degrees below zero
  - $\bullet$  100 degrees below zero
  - 60 degrees below zero

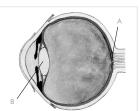
Lesson 135

### **TEXTBOOK**

15. If you're taking a picture where it's very bright, you would set the iris of the camera so the hole is

• big • small

- 16. If you're taking a picture where there is very little light, you would set the iris of the camera so the hole is \_\_\_\_\_\_.
- 17. What's part A? retina
- 18. What's part B? lens
- 19. Write the letter of the part that shows a picture of what the eye sees.
- 20. Write the letter of the part that bends the light.



334

# **WORKBOOK**

Name \_\_\_\_\_

Story Items Ideas: He needed to learn about the

- Why did Al need the old man's trips when he first went to the store? world; he needed to learn that learning is fun; he needed to see things.
- 2. Why doesn't Al need the trips anymore? Idea: He has learned how to take a trip by reading a book.
- 3. Who decided where to go on this trip? **the old man**
- 4. Where did they go? to a library
- 5. About how many books were in the library?
  - 30 million 2 million
- 3 million
- 6. About how many of those books were about animals?
  - 3 thousand
- 3 hundred 3 million
- 7. What did Angela want to read about? animals
- 8. What was the brain of the library? **Computers**
- Did the old man order one book or more than one?
- 10. What was the title of the first book the old man picked up from the table? Animals in Africa
- 11. Who will start reading from that book?

© SRA/McGraw-Hill. All rights reserved. Lesson 136 119

# **WORKBOOK**

Review Items
12. What is animal A? <b>porpoise</b>
13. What is animal B? Saber-toothed tiger
14. What is animal C? baboon
15. What is animal D? <b>gorilla</b>
16. What is animal E? Leopard
A
B

GO TO PART C IN YOUR TEXTBOOK.

Lesson 136 © SRA/McGraw-Hill. All rights reserved.

Some facts appeared on the computer screen. The old man said, "The computer tells us that there are over three thousand books on animals. If you wish, the computer will list all the titles. Or you can give the computer more information about the kinds of animals you are interested in."

Angela said, "Well, I don't really care that much. I like all . . ."

Before she could finish her sentence, the old man said, "I will select some titles for you."

The old man quickly pressed some keys on the computer

keyboard. Then he said, "Our books will be here in a moment."

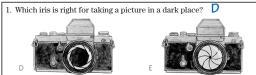
The old man stood up and walked over to a small door in the wall. Suddenly a light over the door went on. The old man opened the door and there was a pile of books inside.

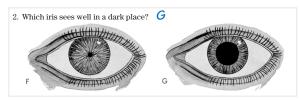
The old man picked them up and carried them over to a table. He picked up a book titled *Animals in Africa* and handed it to Al. The old man said, "Start reading for us and we'll go on a new kind of trip."

Al picked up the book and started to read.

# Number your paper from 1 through 23.

### **Review Items**





esson 136

337

# **TEXTBOOK**

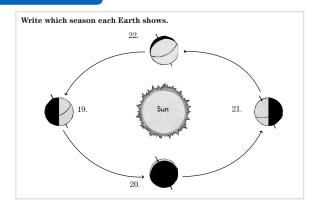
- 3. What is part A? pupil
  4. What is part B? iris
- 5. What's under the snow at the North Pole? **Water**; ocean
- 6. About how deep is the snow at the South Pole? (over) a mile
- 7. Where is the snow deeper, at the North Pole or at the South Pole? **South Pole**
- 8. What are groups of baboons called? troops
- Name an animal that looks something like a baboon but is much bigger. gorilla
- 10. Name an animal in the cat family that is the size of a big dog. leopard
- 11. Name an animal in the whale family that many people think is the smartest. porpoise (Accept dolphin)
- 12. About how long ago did saber-toothed tigers disappear from the earth? 25 thousand years (ago)
- 13. Which pole is at the top of the earth? North Pole
- 14. Which pole is at the bottom of the earth? South Pole
- 15. How many miles does light travel in one second? 186 thousand (miles)
- 16. What else travels as fast as light? Idea: nothing
- 17. Which letter shows the part of the earth where it is night? X
- 18. Which letter shows the part of the earth where it is daytime?





338 Lesso.

# **TEXTBOOK**



23. How much daylight is there during winter at the North Pole?

19. winter 20. spring 21. summer 22. fall

# **WORKBOOK**

■ Story Items

Name \_\_\_\_\_

137

- 1. What are the 2 kinds of seasons that Africa has?
  (2 ideas:) wet (season) and dry (season)
- 2. What is the veld of Africa?

ldea: a great field of grass

- 3. Name 3 kinds of animals that live on the veld in Africa.

  (Any 3:) baboons; giraffes; lions; leopards; monkeys
- Every day during the dry season, African animals go to a place where they don't usually fight. Name that place.

water hole

- 6. What did the old man say they should do if they wanted to read more of the book? Idea: come back to the library (sometime and read it)
- 7. Al and Angela read part of a book titled *How Animals Learn*. Which animal did that book say is next-smartest after humans?

<u>baboons</u>

8. Why do troops of baboons need lookouts? Ideas: to look out for enemies/danger; to warn troop of danger

esson 136

339

© SRA/McGraw-Hill. All rights reserved

Lesson 137

### Crossword Puzzle



retina	dolphin	iris	sunset	porpoise	e pupil
lens	summer		shark	horizon	film
extend	Enduran	ce	examine	south	north

### Across

- 4. The part of a camera that bends the light is the
- 6. The place where the sky meets the ground is called the
- 7. Name an animal in the whale family that is very
- 9. When the North Pole tilts toward the sun, we are having

### Down

- The pole at the bottom of the earth is called the Pole.
- 2. The part of a camera where pictures are formed is the
- 3. A ship that sank at the South Pole was named the
- 5. When you look at something very closely, you that thing.
- 8. The part of a camera that lets just enough light into the camera is the

GO TO PART C IN YOUR TEXTBOOK.

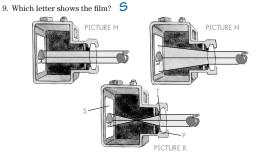
122

### TEXTBOOK

# Number your paper from 1 through 22.

**Review Items** 

- 1. Do any two snowflakes look **exactly** alike? **100**
- All snowflakes are the same because they all have spokes.
- 3. Which would be harder, snow that is 10 meters below the top of a pile or snow that is 15 meters below the top of the pile? meters below
- 4. What part of a camera bends the light that goes through it?
- 5. What part of a camera lets just enough light into the camera? iris
- 6. Which picture shows where the paths of light will go after they go through the lens?
- 7. Which letter shows the iris?
- 8. Which letter shows the lens?



Write toward or away from for each blank.

During our winter, the North Pole tilts 10. the sun and the South Pole tilts 11. the sun.

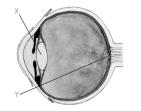
10. away from 11. towards

Lesson 137

### **TEXTBOOK**

12. How many hours does it take the sun to make a full circle around a person at the North Pole? 24

- 13. What's part X? lens
- 14. What's part Y? retina
- 15. Write the letter of the part that bends the light. X
- 16. Write the letter of the part that shows a picture of what the eye sees.



- 17. When you dive down 33 feet, you have \_\_\_\_\_ times the pressure 2 on you that you have at the surface.
- 18. When you dive down 66 feet, you have times the pressure 3 on you that you have at the surface.
- 19. When you teach animals to work for new rewards, do you change the reward quickly or slowly?
- 20. When you teach an animal to work for a new reward, what kind of reward do you start with?
- 21. Then what do you do to that reward? Idea: slowly change it
- 22. When do you stop changing the reward? Ideas: when it becomes the new reward; when the animal will work for the new reward

### 20. Idea: one the animal will work for

# **WORKBOOK**

Name

138

Story Items

- 1. Which dinosaur lived earlier, Plateosaurus or Tyrannosaurus? Plateosaurus
- 2. About how long was Plateosaurus? (over) 20 feet
- 3. Why did Angela want to read about the solar system? Idea: She had missed that trip.
- 4. Did Al and Angela like the trip to the library as much as the other trips?
- 5. How many books about dinosaurs did the library have?
  - over 600 • over 1000
- less than 50
- 6. Dinosaurs lived during the Mesozoic
- 7. How long ago did the Mesozoic begin?
- 235 million years ago
- 8. Write 3 things that you would see in the jungle where the first dinosaurs

(Any 3:) strange plants/trees/grass; huge dragonflies/bees; Plateosaurus/dinosaurs

9. The old man told Al and Angela, "You have to use your imagination to take a trip from a book."

Lesson 137

345

© SRA/McGraw-Hill. All rights reserved

10. Name 2 things that were different when Al and Angela left the old man's store

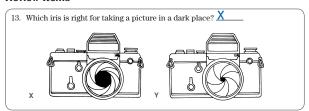
<u>Ideas: The bell did not ding; the sign was</u> gone.

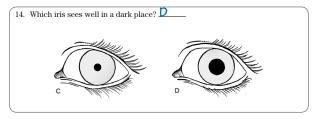
11. What did Al do after dinner?

Idea: wrapped presents

12. What was special about the next day? **Idea: It was Christmas.** 

### **Review Items**





GO TO PART C IN YOUR TEXTBOOK.

24 Lesson 138

© SRA/McGraw-Hill. All rights reserved.

### **TEXTBOOK**

Al didn't say anything at dinner. After dinner he wrapped the presents that he had bought at the strange store. Imagine buying a beautiful toaster for only a dollar. It didn't make sense. Nothing made sense to Al on the night before Christmas.

O Number your paper from 1 through 26.

Skill Item:

Write the word from the box that means the same thing as the underlined part of each sentence.

leopard porpoise bought dinosaurs history sabers transparent created

- The museum had a display of swords. Sabers
- 2. She made a beautiful painting. created
- 3. We watched the dolphin do tricks. porpoise

### Review Items 4. dark; 5. light

Write dark or light for each blank.

During our winter, the North Pole is 4. all the time and the South Pole is 5. all the time.

- 6. What's under the snow at the North Pole? water; ocean
- 7. About how deep is the snow at the South Pole? (over) a mile
- 8. Where is the snow deeper, at the North Pole or at the South Pole? **South Pole**
- 9. The ship named *Endurance* was stuck in the ice at the **South Pole**
- 10. What happened to Scott and the men with him?
- 11. What are the two kinds of seasons that Africa has?
- 12. What is the veld of Africa? Idea: a huge field (of grass)

10. Idea: They all died. 11. wet (season) and dry (season)

Lesson 138 349

### **TEXTBOOK**

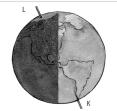
- 13. Every day during the dry season, African animals go to a place where they don't usually fight. Name that place. **water hole**
- 14. Al and Angela read part of a book about how animals learn.

  Which animal did that book say is the smartest?
- 15. Why do troops of baboons need lookouts?

16. What is part A? pupil 17. What is part B? iris



- 18. Which is bigger, Alaska or Japan? Alaska
- 19. Is Japan a state or a country? Country
- 20. How many people live in Japan?
  - 127
- 127 million
- 127 thousand
- 21. About how deep is the snow at the North Pole? 70 feet
- 22. How much land is under the snow at the North Pole? Idea: none
- 23. Which letter shows the
- South Pole?
- 24. Which letter shows the North Pole?

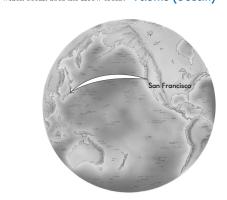


# 15. Idea: to watch for (and warn the troop of) danger/enemies

350 Lesson 138

# **TEXTBOOK**

25. The arrow on the map goes from San Francisco to Japan 26. Which ocean does the arrow cross? Pacific (Ocean)



Lesson 138

Name \_

### A Story Items

- 1. What did Al's mother give Al for Christmas? <u>Idea: a book (on animals in Africa)</u>
- 2. What did Al's family do after breakfast? Idea: went for a walk
- 3. Did Al's mother think there was an Anywhere Street? 10
- 4. Was Al's mother right? **Yes**
- 5. What was the **real** name of the street?

### Anderson Street

6. What kind of store did the old man have?

### <u>bookstore</u>

7. What kind of book did the old man give Al's mother?

### cookbook

8. What was the title of the book the old man gave Al and Angela?

### Go Anywhere. See Anything.

### Review Items

- 9. The dinosaurs lived in the Mesozoic
- 10. Which dinosaur lived earlier. Plateosaurus or Tvrannosaurus?

### <u>Plateosaurus</u>

Lesson 139

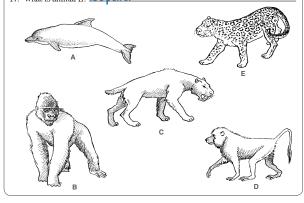
125

## **WORKBOOK**

- 11. About how long was Plateosaurus? (over) 20 feet
- 12. Write 3 things that you would see in the jungle where the first dinosaurs

(Any 3:) strange plants; huge dragonflies/bees: Plateosaurus/dinosaurs

- 13. What is animal A? porpoise (Accept dolphin.)
- 14. What is animal B? gorilla
- 15. What is animal C? saber-toothed tiger
- 16. What is animal D? baboon
- 17. What is animal E? leopard



GO TO PART C IN YOUR TEXTBOOK.

© SRA/McGraw-Hill. All rights reserved

## TEXTBOOK

the human brain. It will take you anywhere."

"Wow!" Al said.

"Thanks a lot," Angela said. The old man talked to Al and the others for a while. Then Al's mother said, "We'd better get going. I have to cook a big Christmas dinner."

When Angela opened the door, the bell went ding, ding. The old man followed them outside. "Have a merry Christmas," he said.

Al said, "This is the best Christmas I ever had." Al felt very happy and very sad at the same time.

The old man said, "And come back and see me sometime. I have a lot of good books. Come in and read "We will," Angela said.

Then they all started walking back down Anderson Street. They walked past the gift shop to the

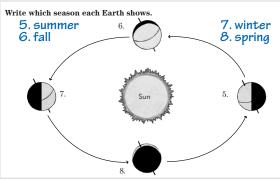
When they reached the corner, Angela turned to Al. "Did this really happen? Did we really go on all those trips? Or was it just some kind of dream?"

"I don't know." Al said. "But it sure was great. It was really great."

Later that day Al's mother fixed the best Christmas dinner Al ever had. And after dinner Angela and Al read from the book Go Anywhere. See Anything. It was the best book that Al had ever read. And Al had the best Christmas ever.

# **TEXTBOOK**





- 9. Name the two poles. North Pole and South Pole
- 10. What season do we have when the North Pole tilts toward the sun? SUMMer
- 11. What season do we have when the North Pole tilts away from the sun? winter
- 12. During what season is it dark at the North Pole? winter
- 13. How cold does it often get during that season?
  - 60 degrees
  - 60 degrees below zero
  - 100 degrees below zero

356

them. You don't have to buy them. Come in anytime."

### Number your paper from 1 through 22. **Review Items**

- 1. Name the part of the eye where pictures are formed. retina
- 2. If you're taking a picture where there is very little light, you would set the iris of the camera so the hole is
  - small • big
- 3. If you're taking a picture where it's very bright, you would set the iris of the camera so the hole is \_\_\_\_\_. Small

- 14. What is the name of the hole at the front of the eye? pupil
- 15. What color is that part? black (accept clear)
- 16. What part of the eye is just behind the hole?
- 17. What's strange about the images that are formed in your eye?
- 18. How long does it take light to travel from the sun to Earth? 8 minutes
- 19. How much daylight is there during winter at the North Pole?
- 20. The more water the glass has, the the sound it makes.

• lower • higher

21. Write the letter of the glass that will make the lowest ring.

22. Write the letter of the glass that will make the highest ring.



17. Idea: They're upside down.

Lesson 139

Idea:

none

357

# **TEXTBOOK**



13. wet (season) and dry (season)



Number your paper from I through 35.

- 1. About how deep is the snow at the North Pole? 70 feet
- 2. What is under the snow at the North Pole? water; ocean
- 3. What's under the snow at the South Pole? land; rock
- 4. Name the part of the eye where pictures are formed. retina
- 5. What part of a camera bends the light that goes through it?
- 6. What part of a camera lets just enough light into the camera? iris
- 7. If you're taking a picture where it's very bright, you would set the iris of the camera so the hole is
  - large small
- 8. If you're taking a picture where there is very little light, you would set the iris of the camera so the hole is \_\_\_\_\_\_. arge
- 9. What is part C? iris
- 10. What is part D? pupil



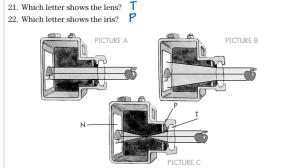
leopard

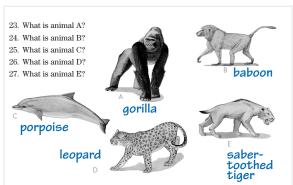
- 11. Name an animal in the cat family that is the size of a big dog.
- 12. Name an animal in the whale family that many people think is the smartest. porpoise (accept dolphin)
- 13. What are the 2 kinds of seasons that Africa has?
- 14. What is the veld of Africa? Idea: a great field of grass
- 16. Which dinosaur lived earlier, Plateosaurus or Tyrannosaurus? Plateosaurus
- 17. About how long was Plateosaurus? 20 feet
- Write 3 things that you would see in the jungle where the first dinosaurs lived. (Any 3:) strange plants/trees; huge dragonflies/bees; Plateosaurus/dinosaurus

358 Lesson 14

# **TEXTBOOK**

- 20. Which letter shows the film?





Lesson 140 35

143

### **TEXTBOOK**

28. away from 29. toward

Write toward or away from for each blank.

During our winter, the North Pole tilts  $\begin{tabular}{c} 28. \\ \end{tabular}$  , the sun and the South Pole tilts  $\begin{tabular}{c} 29. \\ \end{tabular}$  the sun.

30. How many hours does it take the sun to make a full circle around a person who is at the North Pole? 24

Skill Items

For each item, write the underlined word or words from the sentences in the box.

A <u>single</u> star was near the <u>horizon</u>.

Troops of baboons moved across the veld.

- 31. What underlining refers to groups of baboons? troops
- 32. What underlining means one? single
- 33. What underlining names large members of the monkey family? baboons
- 34. What underlining names the line between the earth and the sky? horizon
- 35. What underlining refers to a large field in Africa? **veld**

END OF TEST 14