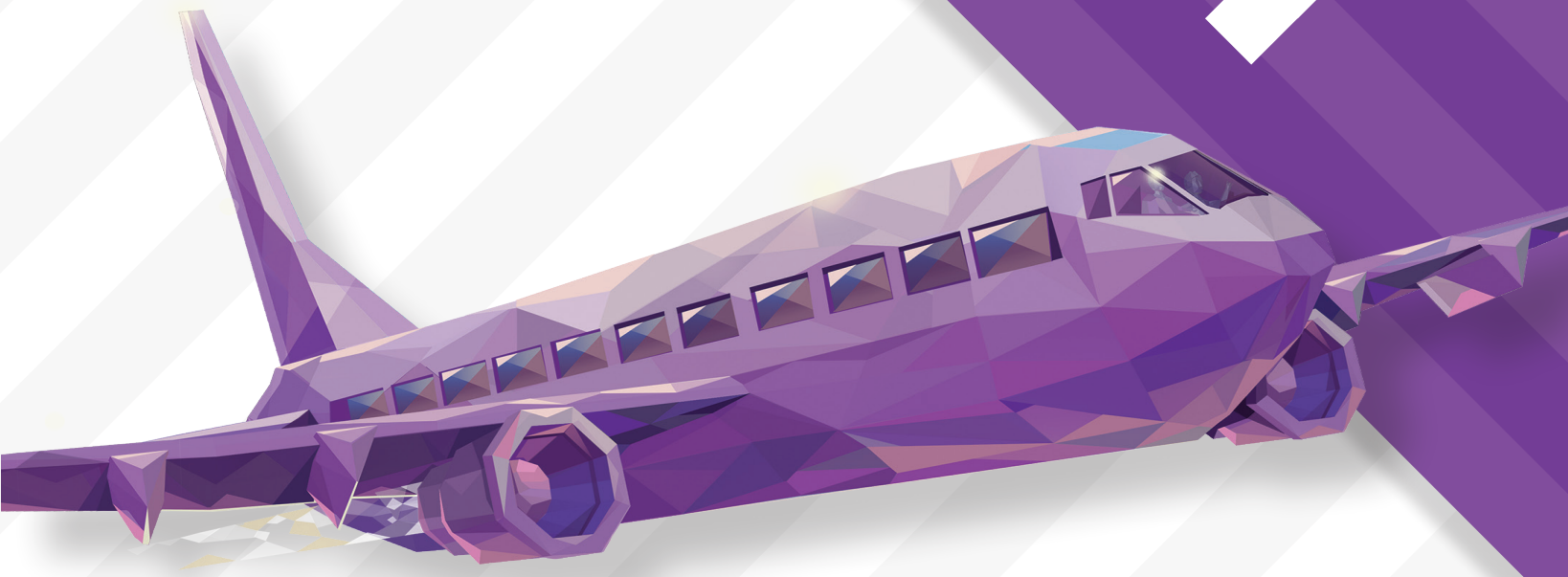
Grade 5

Reveal MATH®

AVAILABLE IN SPANISH



Mc Graw Hill

Student Practice Book
Sampler

Grade 5

Reveal MATH®

Student Practice Book **Sampler**

Every lesson has two additional practice pages to further build proficiency and confidence with the lesson concepts. Students can complete in the Student Practice Book or digitally with embedded learning aids and autoscoring.

This sampler includes the Student Practice Book pages from the following units:

Unit 2: Volume
Unit 3: Place Value and Number Relationships

Mc Graw Hill

Lesson **2-1**

Additional Practice

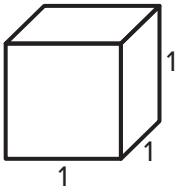
Name _____

Review

Volume is the space inside a three-dimensional figure.

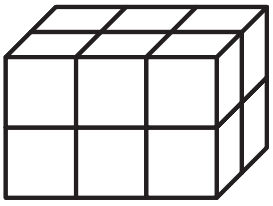
You can fill the inside of the figure with unit cubes to determine its volume.

1 unit cube

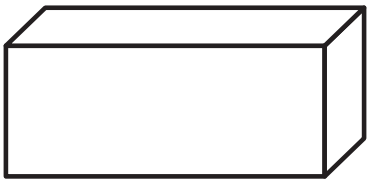


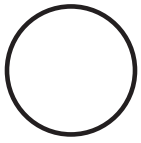
1 cubic unit

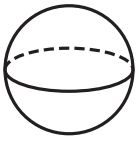
The volume of this rectangular prism is 12 cubic units.



1. Which of these figures has volume? Justify your reasoning.







2. Tell which type of unit you would use to measure each of the following. Choose from length units, square units, or cubic units.

a. a piece of string _____

b. the amount of space inside a refrigerator _____

c. the amount of floor space a carpet covers _____

For each situation, tell whether you would measure using *length units*, *square units*, or *cubic units*. Explain your reasoning.

3. Franco is measuring the amount of wall space in his room so that he knows how much paint to buy.

4. Katrina wants to know how much water is inside her fish tank.

5. Pete wants to know how far he walks from home to school.

6. Hannah wants to know how much air is inside her balloon. She thinks that she should calculate the area of the balloon. Henry suggests that she should find the volume of the balloon. Who is correct? Explain.

Math @ Home Activity

Identify measurement situations around your home, such as the length of a room, the amount of glass in a window, or how much space is inside a closet. Ask your child what type of units would be needed to measure in each situation.

Lesson **2-2**

Additional Practice

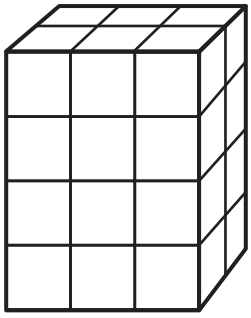
Name _____

Review

You can find the volume of a rectangular prism by packing it with cubes.

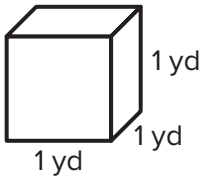
The rectangular prism can hold 24 unit cubes.

The volume of the prism is 24 cubic units.

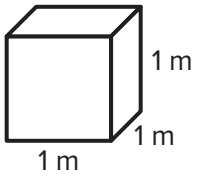


Find the volume of each cube.

1. _____ cubic yd

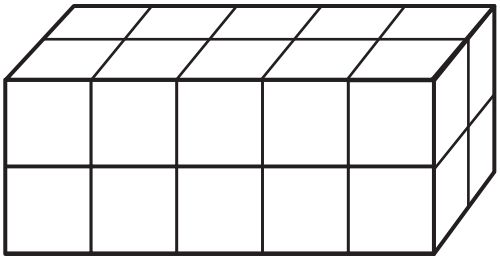


2. _____ cubic m

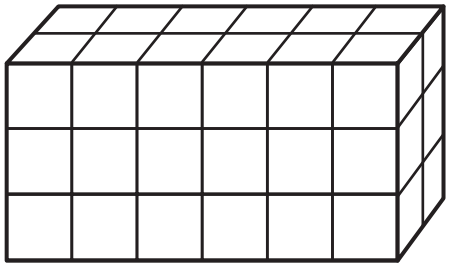


Find the volume of each rectangular prism.

3. _____ cubic units

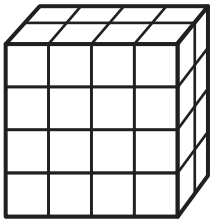


4. _____ cubic units

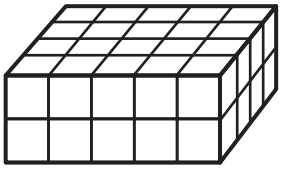


Determine the volume of each prism.

5. _____ cubic units

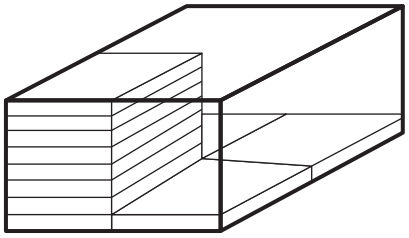


6. _____ cubic units

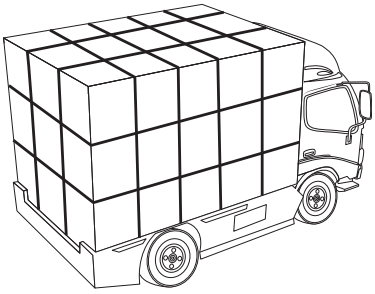


---

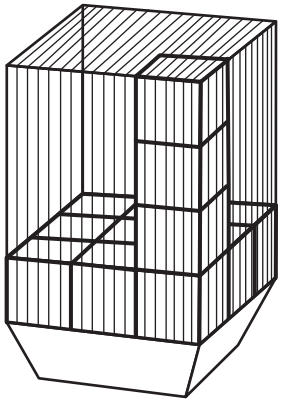
7. Maria is packing DVDs into a shipping box. Explain how many DVDs will fit in one shipping box.



8. Mohammed drew unit cubes on a picture of a truck to find its volume. What is the volume of the truck? Explain.



9. Jared wants a bird cage with a volume of at least 35 cubic feet for his parrot. The cage shown is on sale. Is this bird cage large enough? Explain.



Math @ Home Activity

Have your child practice finding the volume of rectangular prisms by using toy blocks. Stack the blocks to build rectangular prisms of various dimensions and ask your child to count the number of blocks to find the volume. Be sure to use blocks of only one size.

Lesson **2-3**

Additional Practice

Name _____

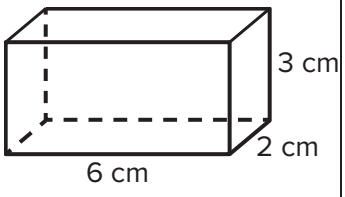
Review

You can calculate the volume of a rectangular prism by multiplying its length, width, and height.

A rectangular prism has a length of 6 centimeters, a width of 2 centimeters, and a height of 3 centimeters.

$V = l \times w \times h = 6 \times 2 \times 3 = 36$ cubic cm.

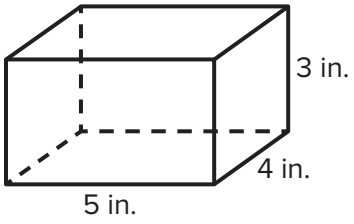
$V = B \times h = 12 \times 3 = 36$ cubic cm.



Use the given volume formula to calculate the volume of each rectangular prism. $V = l \times w \times h$

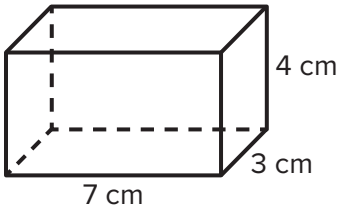
1. $V =$ _____ in. × _____ in. × _____ in.

$V =$ _____ cubic in.



2. $V =$ _____ cm × _____ cm × _____ cm

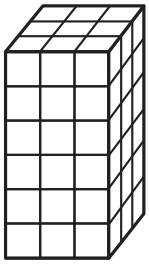
$V =$ _____ cubic cm



Label the dimensions of each rectangular prism. Then use the volume formula to calculate the volume of each prism. $V = B \times h$

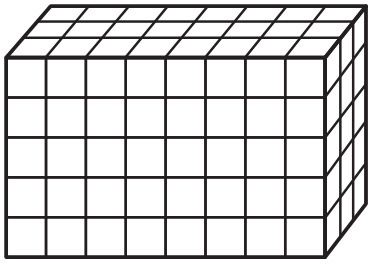
3. $V =$ _____ × _____

$V =$ _____ cubic units

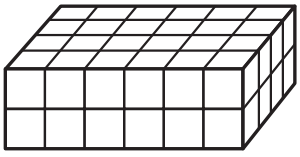


4. $V =$ _____ × _____

$V =$ _____ cubic units



5. Use the two volume formulas, $V = l \times w \times h$ and $V = B \times h$, to write multiplication equations for the volume of the rectangular prism.



$V =$ _____ × _____ × _____

$V =$ _____ × _____

6. Calculate the volume of a video game console with the dimensions 9 inches by 11 inches by 3 inches.

$V =$ _____ in. × _____ in. × _____ in.

$V =$ _____ cubic in.

7. A window air conditioner can cool a space of up to 50 cubic meters. The floor of a room has an area of 16 square meters, and the height of the walls is 3 meters. Will the air conditioner be able to cool the room? Explain.

Math @ Home Activity

Use a ruler or tape measure to measure the dimensions of boxes. Round dimensions to the nearest inch or centimeter. Ask your child to use the volume formula $V = l \times w \times h$ to find the volume of each box.

Lesson **2-4**

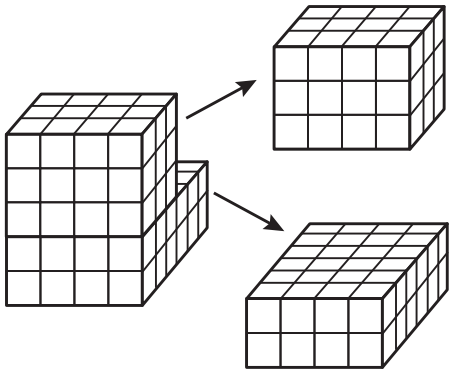
Additional Practice

Name _____

Review

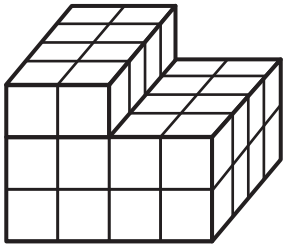
You can find the volume of a composite solid figure by decomposing the figure, finding the volume of each solid figure, and then adding to find the total volume.

The composite solid figure can be decomposed into rectangular prisms with volumes of 36 cubic units and 48 cubic units. The total volume of the composite solid figure is $36 + 48 = 84$ cubic units.

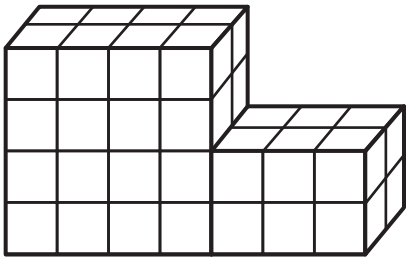


Find the volume of each composite solid figure.

1. $V =$ _____ cubic units

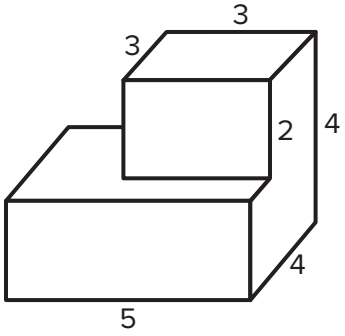


2. $V =$ _____ cubic units

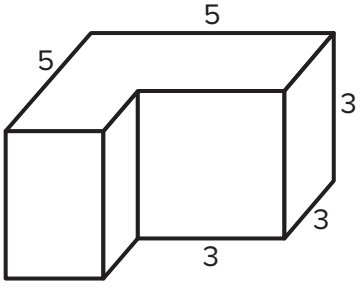


Find the volume of each figure. Draw line(s) to show how you decomposed the figure.

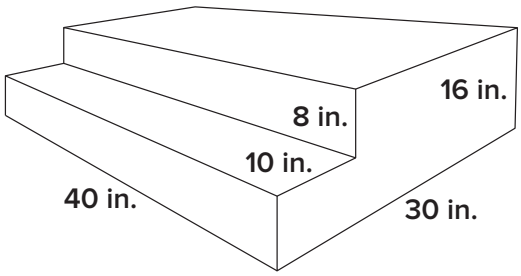
3. $V =$ _____ cubic units



4. $V =$ _____ cubic units



5. Find the volume of concrete used to create these steps. Explain your work.



Top Prism:

$V =$ _____ × _____ × _____ = _____ cubic in.

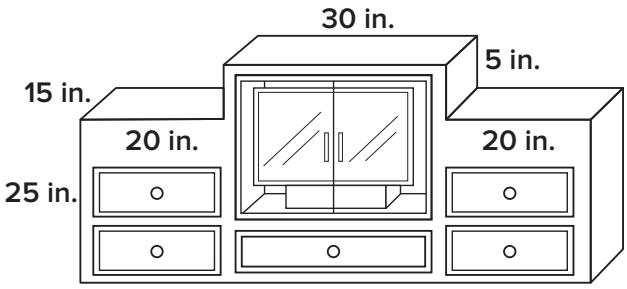
Bottom Prism:

$V =$ _____ × _____ × _____ = _____ cubic in.

Total Volume:

$V =$ _____ + _____ = _____ cubic in.

6. The shape of an entertainment center is shown. Calculate its volume. Explain your work.



Math @ Home Activity

Identify composite solid figures around the home with your child. These items could be furniture such as dressers, desks, or cabinets. Measure the dimensions and practice finding their volumes by decomposing them.

Lesson **2-5**

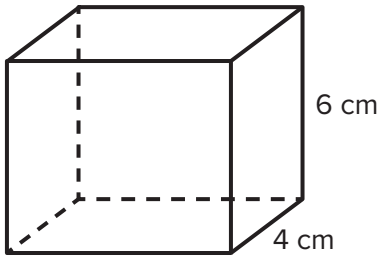
Additional Practice

Name _____

Review

You can solve problems involving volume by using the formulas $V = l \times w \times h$ and $V = B \times h$.

The unknown length of the rectangular prism can be found by substituting the values for the volume, width, and height into the volume formula.

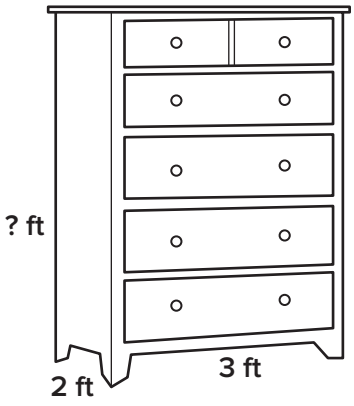


$$V = l \times w \times h$$
$$168 = l \times 4 \times 6$$
$$168 = l \times 24$$
$$168 \div 24 = l$$
$$7 = l$$

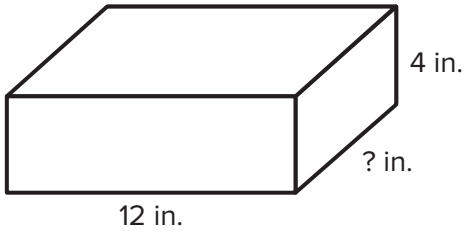
The unknown length is 7 centimeters.

Solve.

1. The volume of the dresser is 24 cubic feet. How tall is the dresser? Explain.

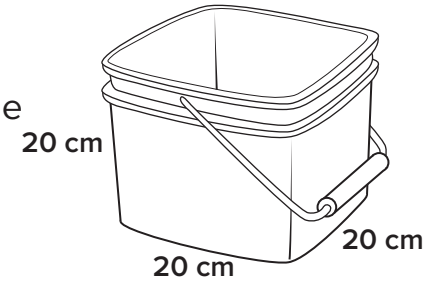


2. The volume of the rectangular prism is 432 cubic inches. What is the width of the prism?

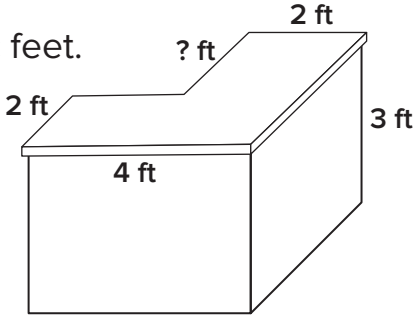


3. A freezer has a volume of 54 cubic feet. It has a length of 6 feet and a height of 3 feet. What is the width of the freezer? Explain.

4. Andrea has a container in the shape of a rectangular prism that she uses for blueberry picking. If the blueberries fill the container to a height of 15 centimeters, what is the volume of the blueberries in the container? Show your work.



5. A kitchen island has a volume of 42 cubic feet. Use the dimensions given in the figure to find the missing dimension. Explain.



Math @ Home Activity

Identify several objects at home that can be represented as rectangular prisms. Have your child predict which object has the greatest volume, and then calculate the volumes of the objects to confirm or refute the prediction.

Lesson **3-1**

Additional Practice

Name _____

Review

You can recognize that the value of a digit represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ as much as it represents in the place to its left.

How does the value of the digit 4 in the thousands place compare to the value of the digit 4 in the hundreds place?

Billions Period			Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
					7	8	9	4	4	1	2

The value of the digit 4 in the thousands place is 4,000. The value of the digit 4 in the hundreds place is 400. 4,000 is 10 times as much as 400. 400 is $\frac{1}{10}$ the value of 4,000.

1. Compare the value of the digit 3 in the ten thousands place to the digit 3 in the thousands place.

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
1	3	3	8	9	5

The value of the digit 3 in the ten thousands place is _____ times as much as the value of the digit 3 in the _____ place.

The digit 3 in the thousands place is _____ the value of the 3 in the ten thousands place.

2. Compare the value of the digit 7 in each number.

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
9	1	4	5	7	2
		9	3	6	7

The value of the digit 7 in the tens place is _____ times as much as the value of the digit 7 in the _____ place.

3. A teacher has 600 stickers. 60 of the stickers are small. How much of the original 600 stickers do the 60 small stickers represent?

The 60 small stickers represent _____ the value of all the stickers.

4. Which of the following are correct? Choose all that apply.

A. The digit 3 in 9,328 is 10 times as much as the digit 3 in 7,031.

B. The digit 3 in 9,328 is $\frac{1}{10}$ the value as the digit 3 in 3,064.

C. The digit 3 in 9,328 is 10 times as much as the digit 3 in 1,039.

D. The digit 3 in 9,328 is $\frac{1}{10}$ the value as the digit 3 in 4,930.

E. The digit 3 in 9,328 is 10 times as much as the digit 3 in 4,253.

Math @ Home Activity

Create a place-value chart with your child. Using sticky notes for each digit, add numbers to the chart. Make sure that only two digits repeat within the number. Have your child compare the values of the two repeated digits. Repeat with a different number.

Lesson **3-2**

Additional Practice

Name _____

Review

You can use place value to find the relationships between decimal values.

Using the number 1.66, compare the value of the digit 6 in the tenths place to the value of the digit 6 in the hundredths place.

hundreds	tens	ones	tenths	hundredths	thousandths
		1	6	6	

The value of the digit 6 in the tenths place is 10 times the value of the digit 6 in the hundredths place.

The value of the digit 6 in the hundredths place is $\frac{1}{10}$ the value of the digit 6 in the tenths place.

1. Leandra records the weights 7.00 pounds, 0.70 pound, and 0.07 pound. Use this information to complete each sentence.

The weight 0.70 pound is _____ times as much as 7.00 pounds.

The weight 0.70 pound is _____ times as much as 0.07 pound.

2. Marva swims eight lengths of a pool in 4.68 minutes. Loren swims eight lengths in 5.87 minutes. Compare the value of the digit 8 in each time.

tens	ones	tenths	hundredths
	4	6	8

tens	ones	tenths	hundredths
	5	8	7

The digit 8 in 4.68 is _____ the value of the digit 8 in 5.87.

3. A bracelet is 8.0 inches long. One bead on the bracelet is 0.8 inch long.

One bead is _____ times the length of the bracelet.

4. Which of the following are correct? Choose all that apply.

A. 0.09 is $\frac{1}{10}$ times as much as 0.90.

B. 9.00 is 10 times as much as 0.09.

C. 0.009 is $\frac{1}{10}$ times as much as 0.09

D. 0.9 is 10 times as much as 9.00

5. Herma has $0.40 in her change purse. Laquanda has $4.00 in her change purse.

Compare the value of the digit 4 in each number. Choose all that apply.

A. Laquanda has $\frac{1}{10}$ times as much money as Herma.

B. Herma has 10 times as much money as Laquanda.

C. Laquanda has 10 times as much money as Herma.

D. Herma has $\frac{1}{10}$ times as much money as Laquanda.

6.

tens	ones	tenths	hundredths	thousandths
9	7	3	3	8

Find the correct value to complete the sentence.

The value of the digit 3 in the tenths place is _____ times as much as the value of the digit 3 in the hundredths place.

7. What are two different ways to describe the relationship between the values of each digit 8 in 3.884?

Math @ Home Activity

Use pennies to show different decimal values, such as $0.02 and $0.20. Have your child write both values, one above the other. Then have him or her use words to compare the values, as done in the Review section. Continue the activity with different sets of monetary values.

Lesson **3-3**

Additional Practice

Name _____

Review

You can write decimals to the thousandths using standard form, expanded form, and word form.

tens	ones	tenths	hundredths	thousandths
2	7	5	4	9

In the chart, 27.549 is written in standard form. Write the number in expanded form and word form.

Remember to write the decimal point as "and" when writing the number in word form.

twenty-seven and five hundred forty-nine thousandths

When writing the number in expanded form, multiply each digit by its place value in decimal form.

$(2 \times 10) + (7 \times 1) + (5 \times 0.1) + (4 \times 0.01) + (9 \times 0.001)$

1. A piece of ribbon is 3.75 feet long. Write 3.75 in expanded form using fractions.

_____ + _____ + _____

2. Write 59.107 in expanded form. Use the place-value chart to find the value of each digit.

tens	ones	tenths	hundredths	thousandths
5	9	1	0	7

_____ + _____ + _____ + _____

_____ + _____ + _____ + _____

3. Write each decimal in word form.

a. 13.5 = _____

b. 1.35 = _____

c. 0.135 = _____

d. 0.013 = _____

4. Write each decimal in standard form.

a. two and nine tenths = _____

b. twenty-nine and six hundredths = _____

c. six and twenty-five thousandths = _____

d. eight hundred forty-one thousandths = _____

5. Write the standard form of each number written in expanded form.

a. $3 + \frac{8}{10} + \frac{2}{1{,}000} =$ _____

b. $30 + 8 + \frac{9}{100} =$ _____

c. 70 + 0.08 + 0.002 = _____

d. 1 + 0.5 + 0.09 = _____

6. Colby says that $\frac{27}{100}$ written in word form is twenty-seven thousandths. Do you agree? Explain.

Math @ Home Activity

With your child, create a chart with three columns and multiple rows. Label the three columns Standard Form, Expanded Form, and Word Form. Take turns with your child filling in the chart. For example, have him or her start by writing a decimal in the Standard Form column. Then you can write both the expanded form and the word form to finish the row. Next write a decimal in standard form, and have your child fill in the rest of the row.

Lesson **3-4**

Additional Practice

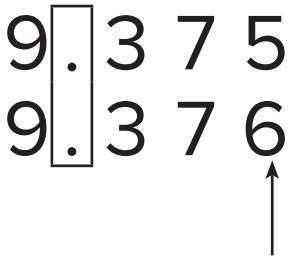
Name _____

Review

You can compare two decimals to the thousandths place.

Lulu runs a mile in 9.375 minutes, and Kindra runs a mile in 9.376 minutes. Compare the two decimals.

Line up the numbers on the decimal point so all the place values will be lined up. Both numbers have 9 ones, 3 tenths, and 7 hundredths.



Since the digits in the thousandths place are different, compare those two digits.

$9.375 < 9.376$

1. Efren has 0.3 ounce of water and 0.38 ounce of salt. Line up the numbers on the decimal point to determine which amount is less than the other amount.

0.3

0.38

0.3 ounce ◯ 0.38 ounce

2. Write thirty-seven and forty-nine hundredths in standard form. _____

Is the number greater than or less than 37.45?

thirty-seven and forty-nine hundredths ◯ 37.45

3. Write a decimal that is equal to 1.5. Explain your answer.

4. Which of the following are correct? Choose all that apply.

A. $0.09 > 0.009$

B. $1.26 < 1.258$

C. $29.99 = 29.990$

D. $37.48 > 37.461$

E. $5.908 = 5.980$

---

5. Lorinda has $10.81 in her piggy bank. Thi has $10.18 in his piggy bank. Compare the amounts.

$10.81 ◯ $10.18

6. Lincoln bikes 24.28 miles on Monday and 24.385 miles on Tuesday. Compare the distances.

24.28 ◯ 24.385

7. Jewel and Karl are playing a game. Jewel has 15.42 points. Karl has 15.428 points. Compare the number of points. Who has the greater number of points?

15.42 ◯ 15.428

_____ has the greater number of points.

8. Zina is 4.25 feet tall. Her cousin Sam is 4.175 feet tall. Compare the heights. Who is taller?

4.25 ◯ 4.175

_____ is taller.

Math @ Home Activity

Give your child three index cards, and have him or her write >, <, and = on them. Identify numbers around your home that are written in decimal form. Ask your child to hold up the correct card to compare the numbers. The cards can also be used at a park to compare lengths of trails, at a gas station to compare prices of gasoline, or at a grocery store to compare prices of food items.

Lesson **3-5**

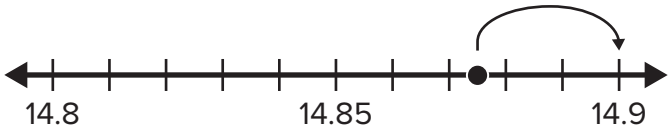
Additional Practice

Name _____

Review

You can round decimals.

Marg has 14.875 feet of rope. Round the length of the rope to the nearest tenth.



14.875 feet rounded to the nearest tenth is 14.9 feet.

1. Round each decimal to the nearest whole number.

a. 0.948 _____

b. 34.972 _____

c. 4.013 _____

d. 48.671 _____

e. 9.05 _____

f. 56.143 _____

g. 12.489 _____

h. 66.701 _____

i. 20.87 _____

j. 79.862 _____

k. 26.187 _____

l. 92.557 _____

2. Round each decimal to the given place value.

a. Round 1.521 to the nearest tenth. _____

b. Round 4.037 to the nearest hundredth. _____

c. Round 19.232 to the nearest tenth. _____

d. Round 41.691 to the nearest hundredth. _____

e. Round 83.888 to the nearest tenth. _____

3. Round each decimal to the given place.

a. 0.143 tenths: _____

hundredths: _____

b. 10.976 ones: _____

hundredths: _____

c. 39.183 ones: _____

tenths: _____

d. 71.565 tenths: _____

hundredths: _____

---

4. A puppy weighs 10.49 pounds. To the nearest tenth, *about* how much does the puppy weigh?

_____ pounds

5. Dona says that 35.284 rounded to the nearest hundredth is 35.29. Do you agree? Explain.

6. There is $78.69 in a checking account. The amount needs to be rounded to the nearest whole dollar. Wally says there is about $78 in the account, and Tu says there is about $79 in the account. Who is correct? Explain.

Discuss instances where rounding can be helpful around your home. For example, if you need 0.75 gallon of milk, you can round up and buy 1 gallon of milk. Then ask your child to round different decimal values. Practice rounding the values to the nearest whole number, tenth, and hundredth.

Grade 5

Reveal MATH®

Student Practice Book **Sampler**

Every lesson has two additional practice pages to further build proficiency and confidence with the lesson concepts.

Students can view the Math Replay video, which is available in the Student Digital Center and recaps the lesson concept for the student, to support them as they complete the Student Practice Book.

When students complete the additional practice digitally, they have access to embedded learning aids, such as course resources, hints, and videos, for support. Autoscoring helps teachers easily monitor progress.

Mc Graw Hill

S2.1023606