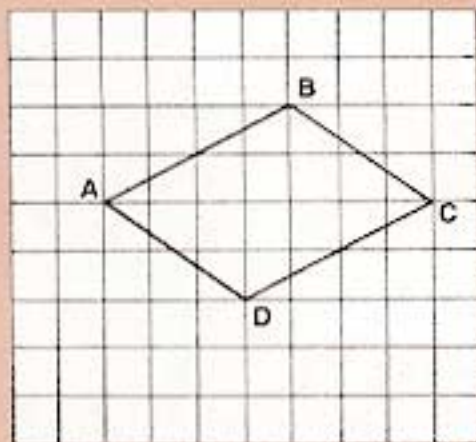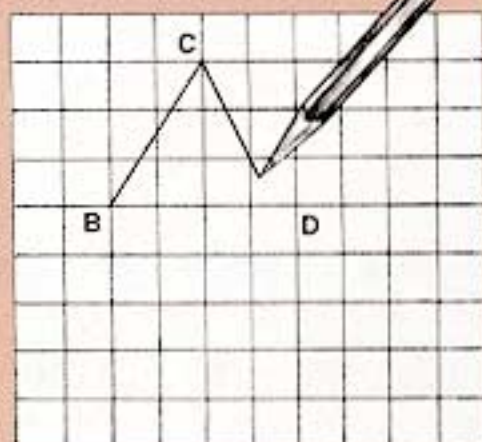**Sample** The shape being drawn in Graph 2 will be congruent to the shape in Graph 1. What will be the coordinates for Point A in Graph 2?

Graph 1

Graph 2

**A** (3, 1)

**B** (4, 2)

**C** (4, 1)

**D** (5, 2)

**TIPS**

• Try the easiest items first.

• Look for important words, numbers, and figures. They will help you find the answer.

• Think about what you are supposed to do before you start working.

GO

**1** Nila rounded the number in the box to the nearest hundred thousand. Andelmo rounded it to the nearest million.

> 2,689,123

What was the difference between their answers?

**A** 300

**B** 3000

**C** 30,000

**D** 300,000

**2**

> $(5 \times 10,000,000) + (9 \times 100,000) + (2 \times 100) + 1$

Which of these numbers equals the expression shown above?

**F** 50,900,201

**G** 59,000,201

**H** 5,900,201

**J** 50,090,201

**3** What rule is Brielle using to change "Now" numbers to "Later" numbers?

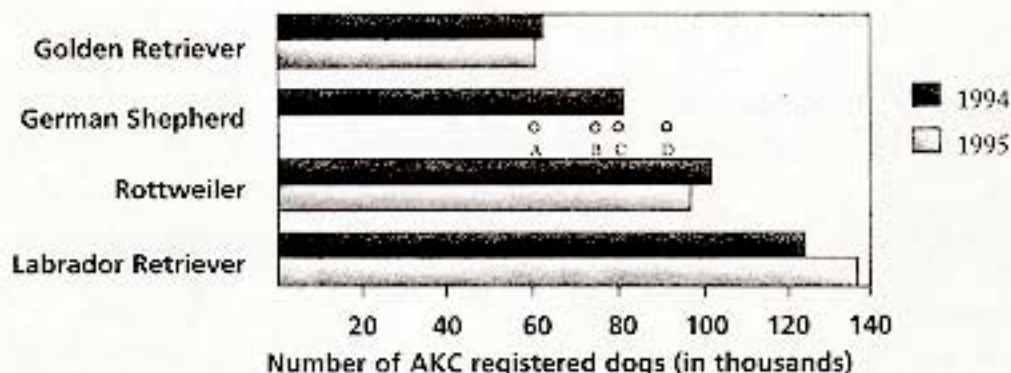| Now | 7 | 18 | 30 |
|-------|-----|-----|-----|
| Later | 18 | 51 | 87 |

**A** add 5, then multiply by 2

**B** subtract 2, then multiply by 3

**C** add 1, then multiply by 3

**D** subtract 1, then multiply by 3

# Going to the Dogs

*Directions:* The graph shows the number of dogs registered with the American Kennel Club in 1994 and 1995. Study the graph. Then do numbers 4 through 6.

## American Kennel Club Registration



Number of AKC registered dogs (in thousands)

■ 1994
□ 1995

**4** A premium dog food company is shooting a commercial with a dog in it. If the company wants to appeal to the largest number of pedigree dog owners, which breed of dog should they use?

**F** Labrador Retriever    **H** German Shepherd

**G** Rottweiler    **J** Golden Retriever

**5** The number of American Kennel Club registered Rottweilers in 1995 was

**A** less than 90,000

**B** between 90,000 and 100,000

**C** between 100,000 and 110,000

**D** more than 110,000

**6** The number of registered German Shepherds in 1995 was 78,088. Look at points A, B, C, and D on the graph. Which point indicates where a bar should be drawn to complete the graph?

**F** Point A    **H** Point C

**G** Point B    **J** Point D

# On The Boardwalk

*Directions:* Wanda and her family enjoy walking along the boardwalk.
Do Numbers 7 through 12 about the boardwalk.

**7**

Ringo runs the ring toss booth on the boardwalk. Here is Ringo.

RINGO

**Which of these is Ringo?**

A  B  C  D

**8** About how much will the popcorn on the scale cost?

**F** $0.80

**G** $2.50

**H** $3.25

**J** $4.95

58¢ a pound  68¢ a pound  78¢ a pound  98¢ a pound  $1.18 a pound

**9** Each member of Wanda's family had one hamburger for lunch. Each hamburger costs $4.95. What else do you need to know to find out how much the family spent on lunch?

**A** which family member paid for lunch

**B** how many people are in the family

**C** the price of hot dogs

**D** how much money Wanda's father had in his wallet

**10** These signs are on the boardwalk. Which sign has no right angles?

Don't
Park
Here

**F**

Popcorn

**G**

Teddy
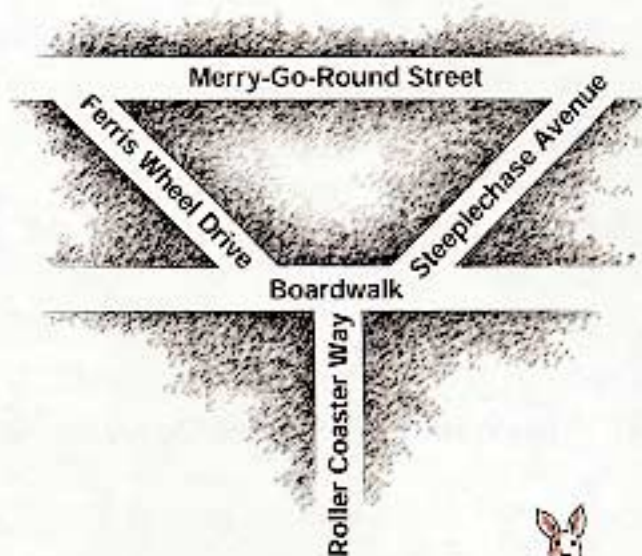Bear
Crossing

**H**

STOP

**J**

**11** The guide book for the boardwalk has a star that extends from the front cover to the back cover. How many points are on the star when the book is open?

Welcome
to the
Boardwalk

**A** 5

**B** 6

**C** 7

**D** 8

**12** The amusements are located on a pier off the boardwalk. Which road runs parallel to the boardwalk?

**F** Steeplechase Avenue

**G** Ferris Wheel Drive

**H** Roller-Coaster Way

**J** Merry-Go-Round Street

Merry-Go-Round Street

Ferris Wheel Drive

Steeplechase Avenue

Boardwalk

Roller Coaster Way

STOP

# Mathematics

### Lesson 7b **Mathematics Skills**

**Which pair of curved lines is probably congruent?**

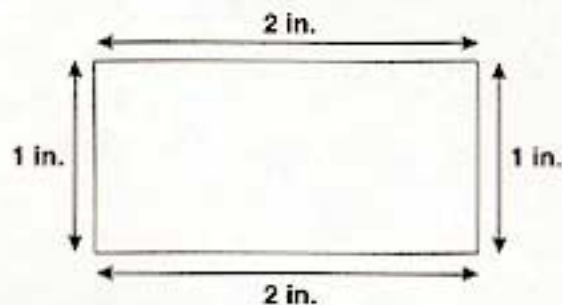A     B     C     D

## TIPS

Before you mark your answer, check it one more time. Be sure you understood the problem and how to solve it.
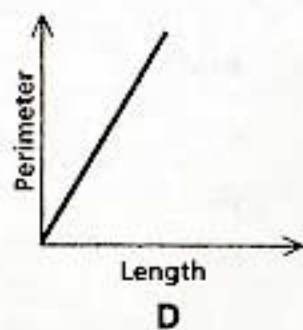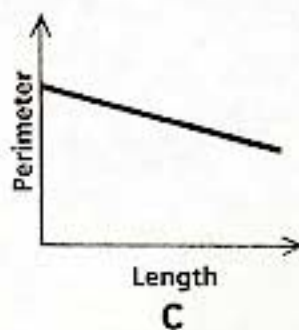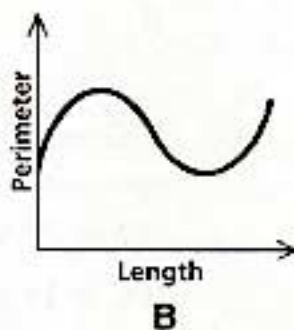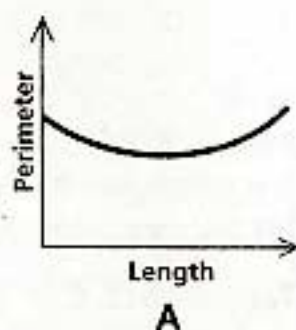
# PERIMETERS, PLEASE

*Directions:* The table shows the perimeters of squares with given side lengths. Study the table. Then do Numbers 1 and 2.

| Length of Side of Square | Perimeter of Square |
|---|---|
| 1 | 4 |
| 2 | 8 |
| 3 | 12 |
| 4 | 16 |
| 5 | 20 |

**1** What is the perimeter of a square with sides of length 2.5?

A   5

B   7.5

C   10

D   12.5

**2** What is the perimeter of the rectangle?

F   2 inches

G   $3\frac{1}{2}$ inches

H   $4\frac{1}{2}$ inches

J   6 inches

2 in.

1 in.          1 in.

2 in.

**3** Which of these graphs best shows how the perimeter of a square is related to the length of a side of the square?
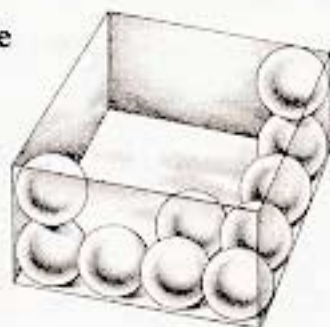


Length
**A**

Length
**B**

Length
**C**

Length
**D**

**4** Nako is using nickels to measure the area of a dollar bill. About how many nickels will it take to cover the dollar bill?

F about 50

G about 21

H about 18

J about 10



**5** Sally and Susie together have more money in their piggy banks than Tom has in his. If Tom has $35.00 and Susie has $17.00, then Sally must have

A less than $17.00

B exactly $18.00

C between $17.00 and $18.00

D more than $18.00

**6** How many more glass balls are needed to fill the box to the top?
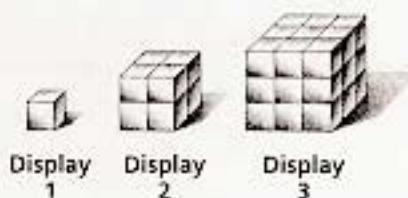
F   20

G   22

H   24

J   26

**7** Lizette makes cubes from blocks to display kitchen gadgets and cookware in her store as shown below.

How many blocks will she use to make Display 6?

A   36

B   64

C   125

D   216

Display 1    Display 2    Display 3

**8** Which of these numbers goes in the box to make the number sentence true?

□ < 50.05

F   55.55

G   50.50

H   50.005

J   55.05

**9** What is the average of 12, 7, and 8?

A   7

B   8

C   9

D   27

**10** If C and D represent whole numbers, what symbol goes in the box to make this statement true?

If $C \times D = 12$, then $12 \:\square\: C = D$?

F   +

G   −

H   ×

J   ÷

**11** What is the rule for this number sequence?

5, 11, 29, 83, 245, …

A   multiply by 3, then add 5

B   multiply by 2, then add 1

C   multiply by 2, then add 7

D   multiply by 3, then subtract 4

**12** The number 8 is _____ times larger than the number 0.0008.

F   10

G   100

H   1000

J   10,000

*Directions:* For Numbers 13 through 16, you do not need to calculate exact answers. Use estimation to choose the best answer.
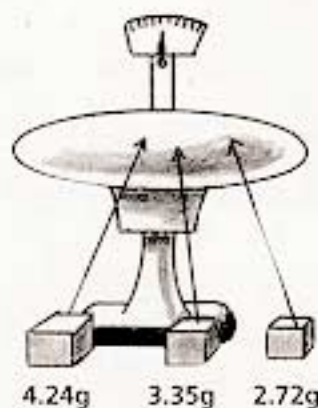
**13** $100 \times \square = 548$

The number that goes in the box to make the number sentence true is

**A** less than 5

**B** equal to 5

**C** between 5 and 6

**D** greater than 6

**14** When the blocks are piled on the scale, how much weight will there be on the scale?

**F** less than 10 g

**G** between 10 and 11 g

**H** between 11 and 12 g

**J** more than 12 g

4.24g    3.35g    2.72g

**15** The Science Club designed and sold postcards for 29¢ each. The club sold 197 postcards. About how much money did the club receive?

**A** $30          **C** $80

**B** $60          **D** $6000

**16** Which of these is the best estimate of $921 \div 9$?

**F** 10          **H** 100

**G** 90          **J** 900

GO