

**Practice Set 69**Use with or after  
Lesson 10•1

Write your answers below or on another piece of paper.

Find each missing number. Use fractions.

1 meter = 10 decimeters	1 yard = 3 feet
1 meter = 100 centimeters	1 yard = 36 inches
1 decimeter = 10 centimeters	1 foot = 12 inches
1 centimeter = 10 millimeters	

1. \_\_\_\_\_ yard = 12 inches
2. \_\_\_\_\_ meter = 8 decimeters
3. 1 foot = \_\_\_\_\_ yard
4. 50 centimeters = \_\_\_\_\_ meter
5. 9 inches = \_\_\_\_\_ foot
6. \_\_\_\_\_ centimeter = 3 millimeters
7. \_\_\_\_\_ yard = 2 feet
8. 9 centimeters = \_\_\_\_\_ meter
9. \_\_\_\_\_ meter = 2 decimeters
10. \_\_\_\_\_ decimeter = 3 centimeters
11. 5 inches = \_\_\_\_\_ foot
12. \_\_\_\_\_ meter = 3 centimeters

Find each answer. You can draw pictures or use counters.

13. There are 12 students taking swimming lessons.  $\frac{1}{3}$  of them are third graders. How many are third graders?  
\_\_\_\_\_
14. The pet store has 10 dogs for sale. Half of the dogs are collies. How many of the dogs are collies?  
\_\_\_\_\_

15. Karen drew a picture of 8 flags. She colored  $\frac{1}{4}$  of the flags orange.

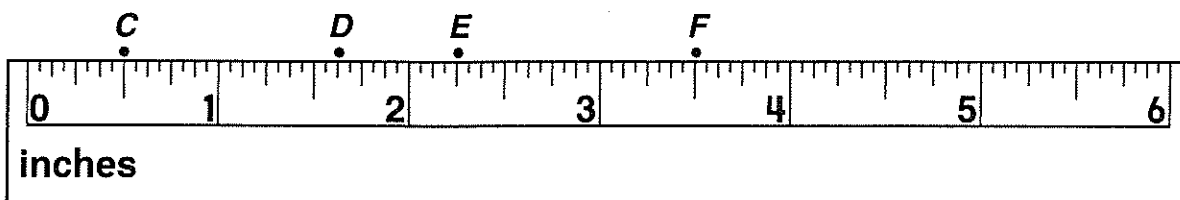
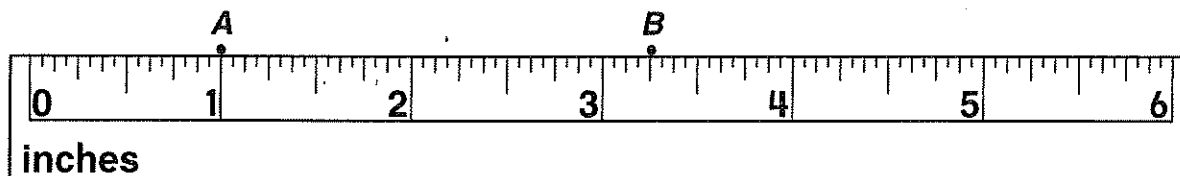
How many flags did she color orange? \_\_\_\_\_

What fraction of the flags did she NOT color orange? \_\_\_\_\_

**Practice Set 69** *continued*Use with or after  
Lesson 10-1

Write your answers below or on another piece of paper.

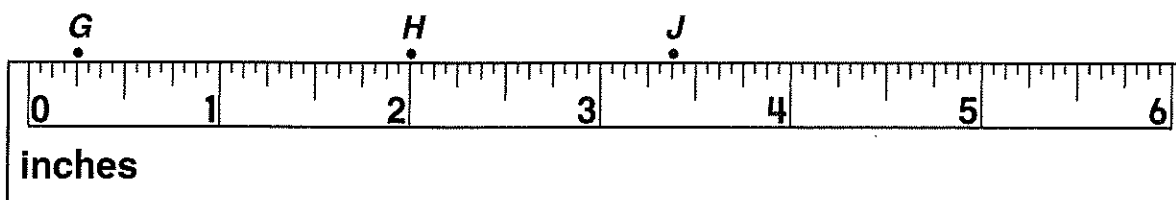
For each ruler, find the distance between the two points.

**Example** A to BThe distance between A and B is  $2\frac{1}{4}$  in.**16.** C to D**17.** E to F**18.** C to F

\_\_\_\_\_

\_\_\_\_\_

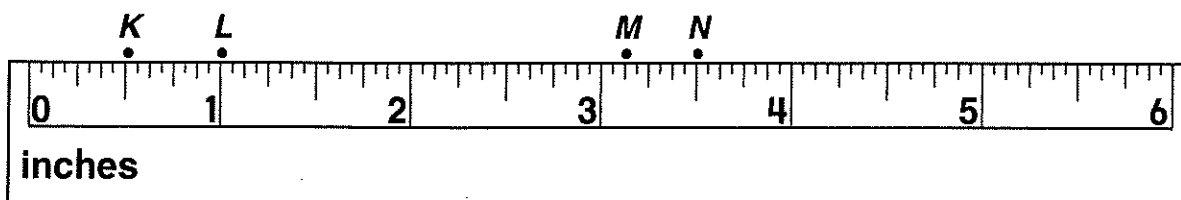
\_\_\_\_\_

**19.** G to H**20.** H to J**21.** G to J

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**22.** K to M**23.** L to N**24.** M to N

\_\_\_\_\_

\_\_\_\_\_

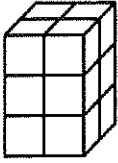
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**Practice Set 70**Use with or after  
Lesson 10·2

Write your answers below or on another piece of paper.

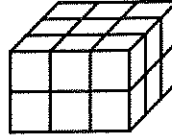
Find the volume (V) of each box. Each cube stands for 1 cubic centimeter.

1.



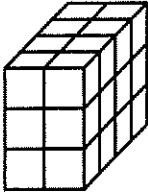
V = \_\_\_\_\_

2.



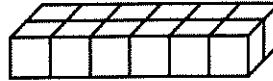
V = \_\_\_\_\_

3.



V = \_\_\_\_\_

4.



V = \_\_\_\_\_

Tell which unit you would use to measure each item. Choose from inch, foot, yard, and mile.

**Example** the length of a pencil  
**Unit:** inch

5. the length of your math book \_\_\_\_\_
6. the length of a paper clip \_\_\_\_\_
7. the distance between Chicago and St. Louis \_\_\_\_\_
8. the length of a football field \_\_\_\_\_
9. the width of your hand \_\_\_\_\_
10. the width of a room \_\_\_\_\_
11. the width of your foot \_\_\_\_\_
12. the width of a park \_\_\_\_\_
13. the distance traveled in a car after one hour \_\_\_\_\_
14. the height of a dog \_\_\_\_\_

**Practice Set 70** *continued*Use with or after  
Lesson 10·2

Write your answers below or on another piece of paper.

Which temperature is colder? You can use the thermometer to help you.

15.  $0^{\circ}\text{F}$  or  $-18^{\circ}\text{F}$  \_\_\_\_\_

16.  $12^{\circ}\text{F}$  or  $-12^{\circ}\text{F}$  \_\_\_\_\_

17.  $0^{\circ}\text{F}$  or  $6^{\circ}\text{F}$  \_\_\_\_\_

18.  $-8^{\circ}\text{F}$  or  $-18^{\circ}\text{F}$  \_\_\_\_\_

19.  $5^{\circ}\text{F}$  or  $15^{\circ}\text{F}$  \_\_\_\_\_

20.  $-23^{\circ}\text{F}$  or  $-32^{\circ}\text{F}$  \_\_\_\_\_

Which temperature is warmer? You can use the thermometer to help you.

21.  $6^{\circ}\text{C}$  or  $36^{\circ}\text{C}$  \_\_\_\_\_

22.  $-14^{\circ}\text{C}$  or  $-45^{\circ}\text{C}$  \_\_\_\_\_

23.  $0^{\circ}\text{C}$  or  $-10^{\circ}\text{C}$  \_\_\_\_\_

24.  $12^{\circ}\text{C}$  or  $-12^{\circ}\text{C}$  \_\_\_\_\_

25.  $16^{\circ}\text{C}$  or  $-37^{\circ}\text{C}$  \_\_\_\_\_

26.  $20^{\circ}\text{C}$  or  $0^{\circ}\text{C}$  \_\_\_\_\_

Solve each problem. You can use the thermometer to help you.

27. One January morning, the temperature was  $-18^{\circ}\text{F}$ . By noon, the temperature had risen to  $4^{\circ}\text{F}$ . How many degrees had the temperature risen?

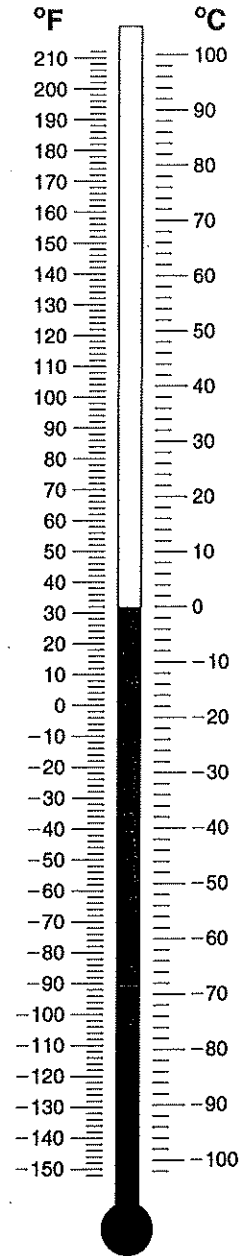
\_\_\_\_\_

28. One June morning, the temperature was  $18^{\circ}\text{C}$ . By 2:00 in the afternoon, the temperature had risen to  $34^{\circ}\text{C}$ . How many degrees had the temperature risen?

\_\_\_\_\_

29. On Tuesday, the high temperature was  $-10^{\circ}\text{C}$ . On Friday, the high temperature was  $4^{\circ}\text{C}$ . How many degrees warmer was the high temperature on Friday?

\_\_\_\_\_



# Practice Set 71

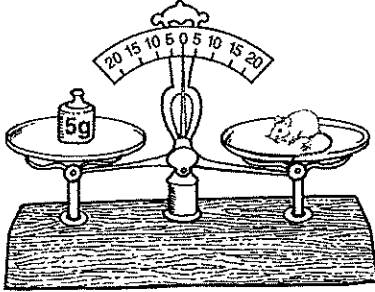
Use with or after  
Lesson 10-4



Write your answers below or on another piece of paper.

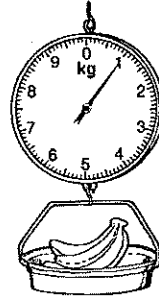
Read the scale and record the weight.

1.



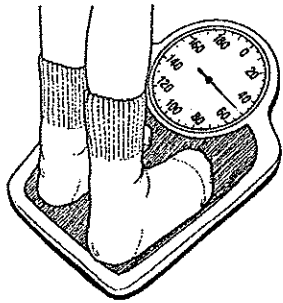
\_\_\_\_\_

2.



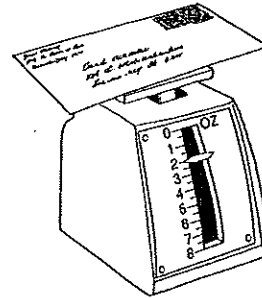
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3.



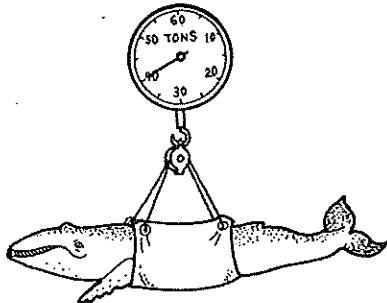
\_\_\_\_\_

4.



\_\_\_\_\_

5.



\_\_\_\_\_

**Practice Set 71** *continued*Use with or after  
Lesson 10•4

Write your answers below or on another piece of paper.

Find the missing numbers. Use fractions.

1 meter = 10 decimeters	1 yard = 3 feet
1 meter = 100 centimeters	1 yard = 36 inches
1 decimeter = 10 centimeters	1 foot = 12 inches
1 centimeter = 10 millimeters	

**Example**    3 centimeters =  $\frac{3}{100}$  meter

- |                                      |  |
|--------------------------------------|--|
| <b>6.</b> 1 inch = _____ foot        | <b>7.</b> _____ meter = 1 centimeter       |
| <b>8.</b> 1 foot = _____ yard        | <b>9.</b> _____ decimeter = 1 centimeter   |
| <b>10.</b> _____ meter = 1 decimeter | <b>11.</b> 6 centimeters = _____ meter     |
| <b>12.</b> 12 inches = _____ foot    | <b>13.</b> _____ centimeter = 1 millimeter |
| <b>14.</b> 2 feet = _____ yard       | <b>15.</b> 70 centimeters = _____ meter    |
| <b>16.</b> _____ yard = 24 inches    | <b>17.</b> 9 decimeters = _____ meter      |

Find the factors for each number listed below.

*The factors of a number are the numbers that can be multiplied by whole numbers to get that number, or the numbers that a number can be divided by without having remainders.*

**18.** 9

\_\_\_\_\_

**19.** 20

\_\_\_\_\_

**20.** 35

\_\_\_\_\_

**21.** 60

\_\_\_\_\_

**22.** 8

\_\_\_\_\_

**23.** 51

\_\_\_\_\_

**24.** 32

\_\_\_\_\_

**25.** 45

\_\_\_\_\_

**26.** 21

\_\_\_\_\_

**Practice Set 72**Use with or after  
Lesson 10•6

Write your answers below or on another piece of paper.

Tell which unit you would use to measure each item. Choose from gallon, quart, pint, cup, ounce, and tablespoon.

1. amount of water you drink with dinner \_\_\_\_\_
2. container of milk that you buy at the store \_\_\_\_\_
3. amount of water in a bathtub \_\_\_\_\_
4. amount of juice in a can from a vending machine \_\_\_\_\_
5. amount of syrup on pancakes \_\_\_\_\_
6. container of orange juice that you buy at the store \_\_\_\_\_
7. amount of water in an eyedropper \_\_\_\_\_
8. amount of water in a swimming pool \_\_\_\_\_
9. amount of cream in a cup of coffee \_\_\_\_\_
10. amount of lemonade needed to serve 4 people \_\_\_\_\_

Solve each problem. Circle the square products.

11.  $9 \times 9 =$  \_\_\_\_\_      12.  $8 \times 7 =$  \_\_\_\_\_

13.  $6 \times 8 =$  \_\_\_\_\_      14.  $9 \times 6 =$  \_\_\_\_\_

15.  $7 \times 7 =$  \_\_\_\_\_      16.  $8 \times 9 =$  \_\_\_\_\_

17.  $7 \times 6 =$  \_\_\_\_\_      18.  $8 \times 8 =$  \_\_\_\_\_      19.  $7 \times 9 =$  \_\_\_\_\_

20. 400 [800s] = \_\_\_\_\_      21. 100 [700s] = \_\_\_\_\_      22. 200 [500s] = \_\_\_\_\_

**Unit**

African lions

**Practice Set 73**Use with or after  
Lesson 10·7

Write your answers below or on another piece of paper.

Find the mean for each data set below.

**Example**    9   5   7   6   3  
**Step 1**    Find the total of the numbers in the data set.  
 $9 + 5 + 7 + 6 + 3 = 30$   
**Step 2**    Count the numbers in the data set.  
 There are 5 numbers in all.  
**Step 3**    Divide the total by 5.  
 $30 \div 5 = 6$   
**The mean is 6.**

**1.** 7 2 5 6

\_\_\_\_\_

**2.** 5 4 2 5 6 2

\_\_\_\_\_

**3.** 12 8 7 10 13

\_\_\_\_\_

**4.** 9 5 6 10 10 11 12

\_\_\_\_\_

Find each missing number.

1 mile (mi) = 1,760 yards (yd)
1 mile (mi) = 5,280 feet (ft)
1 yard (yd) = 3 feet (ft)
1 yard (yd) = 36 inches (in.)
1 foot (ft) = 12 inches (in.)

**5.** \_\_\_\_\_ feet = 2 yards**6.** 18 inches = \_\_\_\_\_ ft \_\_\_\_\_ in.**7.** 3 yd 2 ft = \_\_\_\_\_ ft**8.** 9 ft = \_\_\_\_\_ yd \_\_\_\_\_ in.**9.** 2 miles = \_\_\_\_\_ yards**10.** 10,560 feet = \_\_\_\_\_ miles**11.** 75 in. = \_\_\_\_\_ yd \_\_\_\_\_ in.**12.** 3 ft 9 in. = \_\_\_\_\_ in.**13.** 5,500 ft = \_\_\_\_\_ mi \_\_\_\_\_ ft**14.** 15 ft = \_\_\_\_\_ yd

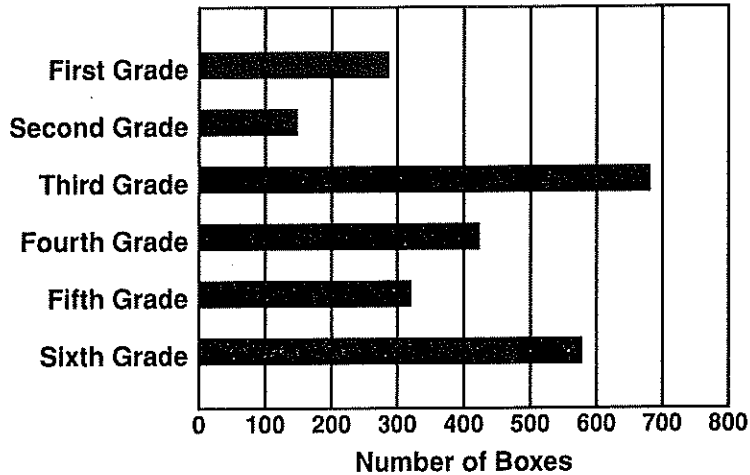


**Practice Set 73** *continued*Use with or after  
Lesson 10·7

Write your answers below or on another piece of paper.

Use the bar graph to answer each question below.

**Boxes of Candy Sold by Our School**



**15.** Which grade sold the fewest boxes of candy?

\_\_\_\_\_

**16.** Which grade sold the most boxes of candy?

\_\_\_\_\_

**17.** What is the range, or difference, between the highest and lowest numbers on the graph?

\_\_\_\_\_

**18.** Which grade sold about twice as many boxes of candy as the second grade sold?

\_\_\_\_\_

**19.** Put the grades in order from the grade that sold the most boxes to the grade that sold the fewest boxes.

\_\_\_\_\_

**20.** How many more boxes of candy would the fourth grade have to sell in order to reach 500 boxes?

\_\_\_\_\_

**Practice Set 74**Use with or after  
Lesson 10·8

Write your answers below or on another piece of paper.

Find the median and the mean for each data set below.

**Example** 58, 63, 65, 49, 53, 65, 58, 72, 65, 61

To find the **median**, put the numbers in order from least to greatest. The median is the number with an equal number of values above and below it.

**49, 53, 58, 58, 61, 63, 65, 65, 72**

**The median is between 61 and 63.**

To find the **mean**, add all the numbers in the data set. (*Hint*: Use a calculator.) Then count how many numbers are in the set, and divide the total by that number. Round to the nearest whole number.

$$58 + 63 + 65 + 49 + 53 + 65 + 58 + 72 + 65 + 61 = 609$$

$$609 \div 10 = 60.9$$

**The mean is about 61.**

1. 195, 204, 198, 187, 200, 193, 205, 187, 182

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2. 929, 905, 917, 933, 904, 913, 905, 901, 908, 922

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3. 397, 395, 400, 403, 397, 382, 410, 406, 395, 397

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4. 1,111; 1,083; 1,102; 1,075; 1,096; 1,114; 1,111; 1,075

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5. 15,270; 15,400; 15,230; 15,320; 15,290; 15,405; 15,300; 15,240; 15,320

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**Practice Set 74** *continued*Use with or after  
Lesson 10-8

Write your answers below or on another piece of paper.

Match each measurement in the first list with an equal measurement in the second list. Write the letter that identifies that equal measurement.

1 gallon	=	4 quarts
1 quart	=	2 pints
1 pint	=	2 cups
1 cup	=	8 fluid ounces

- |                                  |                          |
|----------------------------------|--------------------------|
| 6. 2 gallons _____               | A. 4 pints               |
| 7. 5 cups _____                  | B. $\frac{1}{16}$ gallon |
| 8. 4 fluid ounces _____          | C. 24 fluid ounces       |
| 9. $2\frac{1}{2}$ pints _____    | D. 6 pints               |
| 10. $\frac{1}{2}$ gallon _____   | E. 5 cups                |
| 11. 3 pints _____                | F. $\frac{1}{2}$ cup     |
| 12. 3 quarts _____               | G. 6 quarts              |
| 13. $1\frac{1}{2}$ gallons _____ | H. 8 quarts              |
| 14. 3 cups _____                 | I. 40 fluid ounces       |
| 15. 1 cup _____                  | J. 6 cups                |

Write the value of the underlined digit in each number.

16. 479,214

\_\_\_\_\_

17. 289.46

\_\_\_\_\_

18. 78,432

\_\_\_\_\_

19. 3.289

\_\_\_\_\_

20. 108.27

\_\_\_\_\_

21. 129,568

\_\_\_\_\_

22. 1,045,618

\_\_\_\_\_

23. 157,214

\_\_\_\_\_

24. 40.671

\_\_\_\_\_

25. 357,490

\_\_\_\_\_

26. 2,046.03

\_\_\_\_\_

27. 92,491.045

\_\_\_\_\_

**Practice Set 75**Use with or after  
Lesson 10-10

Write your answers below or on another piece of paper.

The frequency table below shows the number of boxes of cards sold by the third grade to raise money for the school library. Use a calculator to help you answer each question.

Number of Children	Number of Boxes Sold
1	
2	
3	
4	
5	
6	
7	
8	

1. What is the total number of children who sold cards?  
\_\_\_\_\_

2. How many boxes of cards were sold in all?  
\_\_\_\_\_

3. Find the **mode**, or the number that occurs most often, of the number of boxes of cards sold.  
\_\_\_\_\_

4. Find the **median** number of boxes of cards sold.  
\_\_\_\_\_

5. Find the **mean** number of boxes of cards sold.  
\_\_\_\_\_

**Solve each problem.**

6. Jason had 25 quarters. He put 7 of them in his bank. What fraction of the quarters did Jason put in his bank?  
\_\_\_\_\_

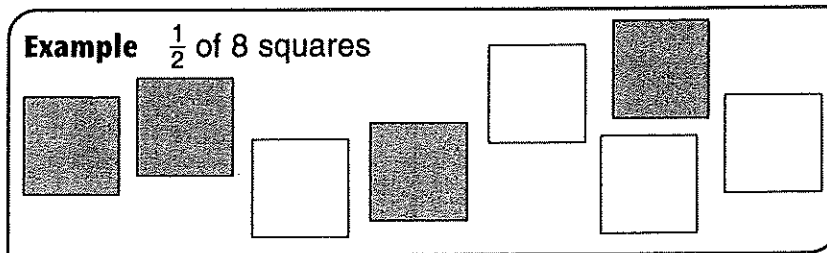
7. Becky spends 5 hours each day at school. What fraction of the day does Becky spend at school? (*Hint: A day has 24 hours.*)  
\_\_\_\_\_

8. Bryan has 4 history videos, 5 science videos, and 3 adventure videos. What fraction of his videos are history? What fraction of his videos are adventure?  
\_\_\_\_\_

**Practice Set 75** *continued*Use with or after  
Lesson 10-10

Write your answers below or on another piece of paper.

Draw and shade shapes to show each fraction.

**9.**  $\frac{1}{4}$  of 4 triangles**10.**  $\frac{1}{3}$  of 6 circles**11.**  $\frac{3}{4}$  of 8 rectangles**12.**  $\frac{1}{2}$  of 10 diamonds**13.**  $\frac{2}{3}$  of 6 triangles**14.**  $\frac{1}{4}$  of 8 circles**Solve each problem.**

**15.** Felix is following a recipe that calls for 3 cups of milk. How many cups of milk does he need to double the recipe?

\_\_\_\_\_

**16.** Sharon bought 3 gallons of juice. There are 4 quarts in 1 gallon. How many quarts of juice did Sharon buy?

\_\_\_\_\_

**17.** At the end of the school year, Lisa weighed 62 pounds. She had gained 6 pounds during the school year. How much did Lisa weigh at the beginning of school?

\_\_\_\_\_

**18.** Sarah rode her bike 18 kilometers Monday and 25 kilometers Tuesday. How many kilometers did she ride her bike in all those two days?

\_\_\_\_\_

**19.** A garden in the shape of a square measures 3 meters on each side. How many meters of fencing would you need to put fencing around the entire garden?

\_\_\_\_\_

**Practice Set 76**Use with or after  
Lesson 10-11

Write your answers below or on another piece of paper.

Follow the directions.

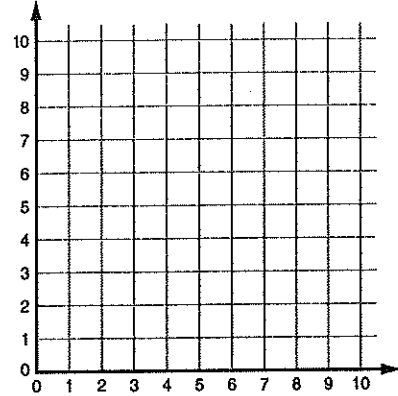
1. Plot these points:

A: (1,1)      B: (3,6)

C: (6,3)      D: (7,0)

E: (5,6)      F: (7,9)

G: (10,6)     H: (3,9)

2. Draw the following line segments:  $\overline{AB}$ ,  $\overline{BC}$ ,  $\overline{CA}$ 

What shape did you make? \_\_\_\_\_

3. Draw the following line segments:  $\overline{DE}$ ,  $\overline{EF}$ ,  $\overline{FG}$ ,  $\overline{GD}$ 

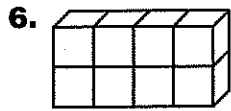
What shape did you make? \_\_\_\_\_

4. Which shape is symmetrical? \_\_\_\_\_

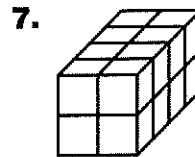
5. Measure the following line segments to the nearest centimeter:  $\overline{AB}$ ,  $\overline{DG}$ ,  $\overline{FG}$ ,  $\overline{CE}$ 

\_\_\_\_\_

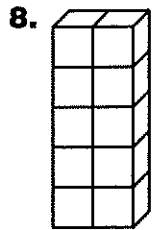
Find the volume (V) of each box. Each cube stands for 1 cubic inch.



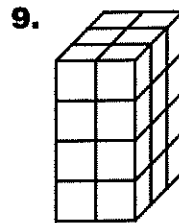
V = \_\_\_\_\_



V = \_\_\_\_\_



V = \_\_\_\_\_



V = \_\_\_\_\_