

Homework

Complete.

1. 75 cm = _____ m
2. 802 cm = _____ m
3. 251 km = 251,000 _____
4. 0.95 mm = _____ cm
5. 0.46 cm = _____ mm
6. 32 m = _____ mm
7. 58 mm = _____ m
8. 2,581 m = _____ km
9. 35.6 mm = _____ cm
10. 2.92 cm = 29.2 _____

Solve.

11. Jason ran 325 meters farther than Kim ran. Kim ran 4.2 kilometers. How many meters did Jason run? Estimate to check your answer.

Estimate: _____
12. On each of 3 days, Derrick rode 6.45 km to school, 150 meters to the library, and then 500 meters back home. How many kilometers did he ride for the 3 days altogether?

13. Lisa wants to frame her little brother's drawing as a gift to her mother. The rectangular drawing is 43.5 centimeters by 934 millimeters. How many centimeters of wood framing will she need?

14. Marguerite is building a box from strips of wood. She needs 78 pieces of wood that are each 29 centimeters long. The wood comes in boards that are 6 meters long. How many boards will she need? Explain.

Remembering

Multiply.

$$\begin{array}{r} 1. \quad 89 \\ \times 7 \\ \hline \end{array}$$

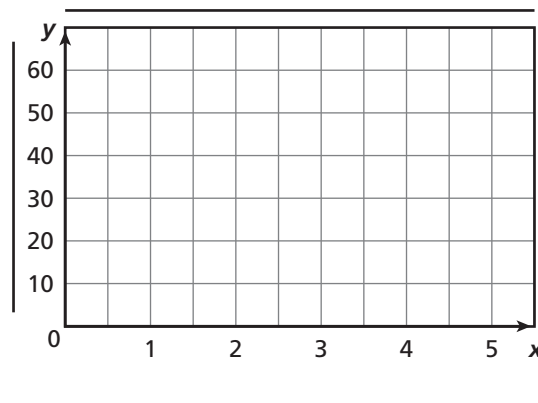
$$\begin{array}{r} 2. \quad 221 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6,077 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 77 \\ \times 65 \\ \hline \end{array}$$

Suppose a plant grows at the rate shown in the table.
Use the table to complete Exercises 5 and 6.

Growth of a Plant	
Age (weeks)	Height (cm)
0	0
1	10
2	20
3	30
4	40



5. Write five ordered pairs that the data represent.

6. Graph the ordered pairs. What does each axis of the graph represent? Title the graph and label each axis.

7. **Stretch Your Thinking** Find the sum of 130 cm and 50 mm in meters. Show your work.

Homework**Complete.**

- | | |
|--------------------------|------------------------|
| 1. 5,811 mL = _____ L | 2. 297 L = _____ kL |
| 3. 1.09 kL = 1,090 _____ | 4. 32,500 mL = _____ L |
| 5. 53.1 L = _____ mL | 6. 5.66 L = _____ mL |
| 7. 2,848 mL = _____ L | 8. 431 L = _____ kL |
| 9. 0.56 L = _____ mL | 10. 0.78 L = 780 _____ |

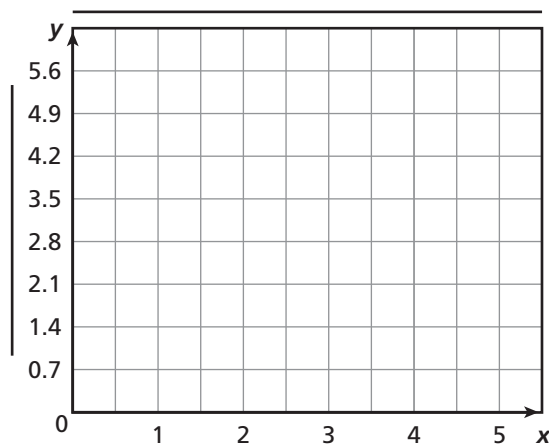
Solve.

11. Jennifer made 5 L of punch for her party. Her brother made another 750 mL. If they combine the two batches, how many 180 mL servings would they have? Would there be any punch left over? If so, how much?
- _____
12. On an average day, a horse might drink 50 L, a sheep might drink 4 L, and a chicken might drink 200 mL. How much water would a farm with 3 horses, 15 sheep, and 12 chickens need for a day?
- _____
13. Terrell has a water purifier for backpacking. It will purify 1 liter of water in 1 minute. How long would it take Terrell to purify enough water for 4 canteens that each hold 750 mL, and two that each hold 1.5 L?
- _____
14. The Institute of Medicine determined that a man should drink 3 liters of fluids a day and a woman should drink 2.2 liters. Mr. Morrison drank 880 mL of water at breakfast and Mrs. Morrison drank 700 mL. How much more will they both need to drink combined to meet the recommended amounts for the day?
- _____

Remembering

Suppose the cost of sugar changes at the rate shown in the table. Use the table to complete Exercises 1 and 2.

Cost of Sugar	
Weight (lb)	Cost (\$)
0	\$0
1	\$1.40
2	\$2.80
3	\$4.20
4	\$5.60



1. Write five ordered pairs that the data represent.

2. Graph the ordered pairs. What does each axis of the graph represent? Title the graph and label each axis.

Complete the equation.

3. $14 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

4. $0.35 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

5. $790 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

6. $0.88 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

7. $782 \text{ km} = 782,000 \underline{\hspace{2cm}}$

8. $58 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

9. **Stretch Your Thinking** Shannon pours four different liquid ingredients into a bowl. The sum of the liquid ingredients is 8.53 liters. Two of her measurements are in liters and two of her measurements are in milliliters. Give an example of possible measurements for Shannon's four liquids.

Homework

Complete.

1. $973 \text{ mg} = 0.973$ _____

2. $0.058 \text{ g} = 58$ _____

3. $10.64 \text{ kg} =$ _____ g

4. $4.001 \text{ kg} =$ _____ mg

5. $29 \text{ g} = 0.029$ _____

6. $7 \text{ mg} =$ _____ g

7. $3.7 \text{ g} =$ _____ mg

8. $84 \text{ g} =$ _____ kg

Solve.

9. The mass of substances left in a sample after the liquid is evaporated is called the *total dissolved solids*. Kim split up 2 liters of water into three different samples and boiled all the liquid away in each. The masses of solids left in the three samples were 2.025 grams, 457 mg, and 589 mg. Using the table at the right, how should Kim classify the water?
- _____

Total Dissolved Solids in 1 Liter of Solution	
fresh	< 1,000 mg
brackish	1,000 to 10,000 mg
saline	> 10,000 mg

10. Jamal watched his older brother Robert lift weights. The bar alone had a mass of 20 kg. On the bar he had two 11.4 kg weights, two 4.5 kg weights, and four 450 g weights. What mass was Robert lifting?
- _____

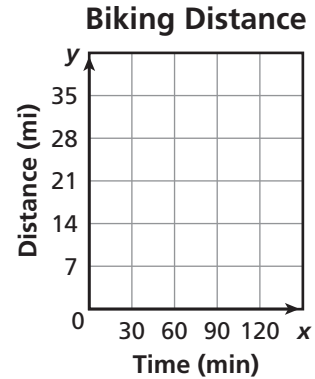
11. Barry bought 25 kg of fish-flavored cat food and 35 kg of chicken-flavored cat food for the cat rescue center. He is going to divide the cat food into packets of 300 grams. How many packets will he make?
- _____

Remembering

Greyson rides his bike at a constant rate. In 30 minutes, Greyson can bike 7 miles.

1. Complete the table to show the distance Greyson can ride in 0, 30, 60, and 90 minutes.

Time (min)	0	30	60	90
Distance (mi)		7		



2. Write the ordered (x, y) pairs the data represent. Then graph the points and extend the line.

(____, ____) (____, ____) (____, ____) (____, ____)

3. How far would you expect Greyson to ride in 105 minutes? Explain your answer.

Complete the equation.

4. 435 L = _____ kL
5. 6.71 L = _____ mL
6. 86,300 mL = _____ L
7. 109 L = _____ kL
8. 5,669 mL = _____ L
9. 30.8 L = _____ mL
10. 9.12 kL = 9,120 _____
11. 9,235 mL = _____ L

12. **Stretch Your Thinking** Write three measurements using grams and three measurements using milligrams that total 15.4 grams.

Homework**Complete.**

1. 36 in. = _____ ft

2. 12 ft = _____ yd

3. 36 in. = _____ yd

4. _____ in. = 4 ft

5. _____ ft = 2 yd

6. _____ in. = 3 yd

7. _____ ft = 90 in.

8. _____ in. = $5\frac{1}{2}$ ft

9. 6 yd = _____ in.

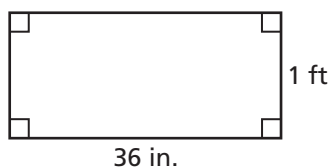
10. _____ yd = 432 in.

11. $1\frac{1}{4}$ yd = _____ ft

12. 90 ft = _____ yd

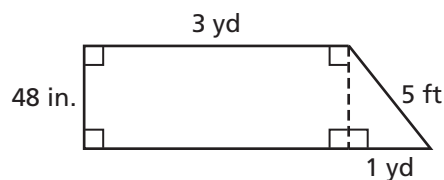
Find the perimeter of each figure in feet.

13.



$P = \underline{\hspace{2cm}}$

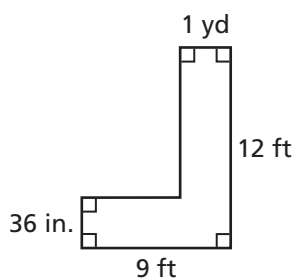
14.



$P = \underline{\hspace{2cm}}$

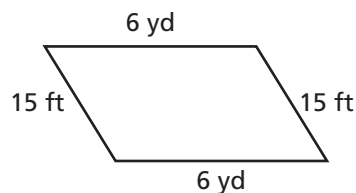
Find the perimeter of each figure in yards.

15.



$P = \underline{\hspace{2cm}}$

16.



$P = \underline{\hspace{2cm}}$

Remembering

Write an expression for the words.

- Multiply 12 by the sum of 8 and t . _____
- Divide 10 by 4 and then subtract 6.2. _____
- Add the product of 7 and 10 to 80. _____
- Subtract $\frac{1}{8}$ from $\frac{5}{6}$. _____

Simplify. Follow the Order of Operations.

- $12 - 7 + 9 - 2$
- $15 \div 0.3 + 6 \div 0.02$
- $(2\frac{3}{8} - \frac{1}{4}) \times \frac{1}{5}$
- $\frac{1}{6} \cdot \frac{1}{6} \div \frac{1}{6}$
- $(7.2 - 3.3) \cdot (0.5 + 0.5)$
- $36 \div (6.6 + 2.4) \cdot 4$

Complete.

- 5 mg = _____ g
- 13.45 kg = _____ g
- 66 g = 0.066 _____
- 0.021 g = 21 _____
- 5.003 kg = _____ mg
- 782 mg = 0.782 _____

17. **Stretch Your Thinking** Draw a figure composed of three different rectangles that has a perimeter of 140 yards. Use measurements in yards and feet to label the sides of your figure.
- _____

Homework**Complete.**

1. 2 pt = _____ qt

2. 4 qt = _____ gal

3. 2 c = _____ pt

4. 3 qt = _____ pt

5. 1 qt = _____ c

6. 5 gal = _____ qt

7. _____ qt = 52 c

8. _____ qt = 46 pt

9. 112 c = _____ gal

10. $11\frac{1}{2}$ gal = _____ qt

11. 112 c = _____ pt

12. 75 pt = _____ qt

Write a fraction.

13. What fraction of 1 gallon is 1 quart?

14. What fraction of 1 quart is 3 cups?

15. What fraction of 1 gallon is 5 cups?

16. What fraction of 1 pint is 1 cup?

Solve.*Show your work.*

17. Cesar bought 2 bottles of juice that each hold 2 quarts and another bottle that holds $1\frac{1}{2}$ gallons of juice. How many quarts of juice did he buy?

18. Samantha saw two bottles of ketchup at the store for the same price. One bottle contained 4 pints of ketchup, and the other contained 1.25 quarts of ketchup. Which bottle was the better bargain?

19. A pitcher is full of lemonade. Which unit of liquid volume best describes the amount of lemonade in the pitcher? Explain.

Remembering

Divide.

1. $5 \overline{)2,245}$

2. $6 \overline{)3,277}$

3. $9 \overline{)4,558}$

4. $56 \overline{)1,344}$

5. $47 \overline{)3,619}$

6. $23 \overline{)2,047}$

7. $91 \overline{)4,315}$

8. $62 \overline{)4,030}$

9. $18 \overline{)1,241}$

Complete.

10. 24 in. = _____ ft

11. 27 ft = _____ yd

12. 3 ft = _____ in.

13. _____ in. = 5 yd

14. _____ yd = 18 ft

15. _____ ft = 84 in.

16. 24 yd = _____ ft

17. 8 ft = _____ in.

18. _____ ft = 84 yd

19. **Stretch Your Thinking** What fraction of a gallon is 3 pints?

Homework**Complete.**

1. 1 lb = _____ oz

2. 2 T = _____ lb

3. 32 oz = _____ lb

4. 1,000 lb = _____ T

5. 4 lb = _____ oz

6. 10,000 lb = _____ T

Write a mixed number in simplest form to represent the number of pounds equivalent to each number of ounces.

7. 40 oz = _____ lb

8. 50 oz = _____ lb

9. 44 oz = _____ lb

10. 68 oz = _____ lb

11. 22 oz = _____ lb

12. 94 oz = _____ lb

Solve.*Show your work.*

13. At a garden center, grass seed sells for \$8 per pound. Kalil spent \$10 on grass seed. What amount of seed did he buy?

14. Two boxes of tea weigh 3 oz. The Tea Time Tasty Tea Company packs 112 boxes in a case of tea. How many pounds does each case of tea weigh?

15. Juli uses 12 ounces of cheese in her potato soup recipe. Her recipe yields 8 servings. If Juli needs enough for 20 servings, how many pounds of cheese will she need?

16. At a grocery store, salted peanuts in the shell cost 30¢ per ounce. Is \$5.00 enough money to buy 1 pound of peanuts? If it is, what amount of money will be left over?

Remembering

Complete the pattern.

1. $5 \times 10^1 = 5 \times 10 =$ _____

2. $45 \times 10^1 =$ _____ $= 450$

$5 \times 10^2 = 5 \times 100 =$ _____

$45 \times 10^2 =$ _____ $= 4,500$

$5 \times 10^3 = 5 \times 1,000 =$ _____

$45 \times 10^3 =$ _____ $= 45,000$

$5 \times 10^4 = 5 \times 10,000 =$ _____

$45 \times 10^4 =$ _____ $= 450,000$

3. $17 \times 10^1 = 17 \times 10 =$ _____

4. $342 \times 10^1 =$ _____ $= 3,420$

$17 \times 10^2 = 17 \times 100 =$ _____

$342 \times 10^2 = 342 \times 100 =$ _____

$17 \times 10^3 = 17 \times 1,000 =$ _____

$342 \times 10^3 =$ _____ $= 342,000$

$17 \times 10^4 = 17 \times 10,000 =$ _____

$342 \times 10^4 = 342 \times 10,000 =$ _____

Solve.

5. 8 qt = _____ pt

6. 2 qt = _____ c

7. _____ c = 2 pt

8. 80 cups = _____ gal

9. $9\frac{1}{2}$ gal = _____ qt

10. 80 cups = _____ pt

11. _____ qt = 24 cups

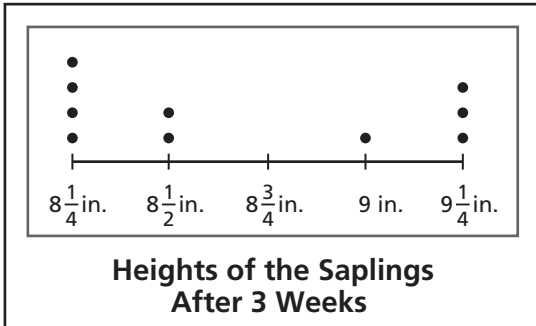
12. _____ pt = 32 qt

13. _____ qt = 25 pt

14. **Stretch Your Thinking** Divide 15 pounds of rice into four unequal measures using ounces.

Homework

1. Perry is growing maple saplings. After 3 weeks, he measured the saplings to the nearest quarter inch and drew this line plot with the data. Use the line plot to answer questions about the saplings.



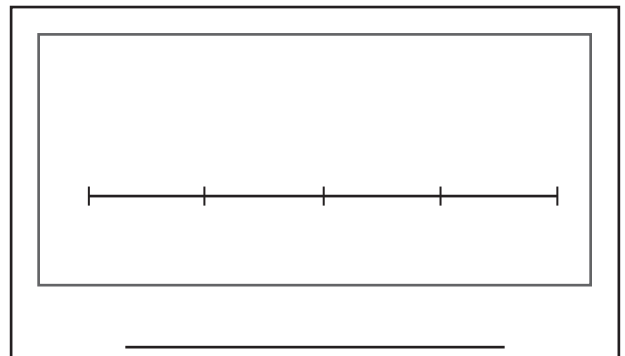
- a. How many saplings were there?

- b. How many saplings were less than 9 inches tall?

- c. What is the combined height of all the saplings?

2. As a volunteer at the animal shelter, Uma weighed all the puppies. She made a list of the weights as she weighed them. The puppies weights were $3\frac{3}{4}$ lb, $4\frac{1}{4}$ lb, $3\frac{1}{2}$ lb, $3\frac{3}{4}$ lb, $3\frac{1}{4}$ lb, $3\frac{3}{4}$ lb, $3\frac{1}{2}$ lb, $4\frac{1}{4}$ lb, and $3\frac{3}{4}$ lb.

- a. Draw a line plot of the puppies' weights.
- b. Use the line plot to write and answer a question about the data.



Remembering

Write an equation to solve each problem.

Show your work.

1. At the school bookstore, Harrison purchases 3 notebooks for \$2.50 each, 10 pens for \$0.35 each, and 5 mechanical pencils for \$0.89 each. By what amount (a) is the cost of the mechanical pencils greater than the cost of the pens?

2. This week an employee is scheduled to work 6 hours each day Monday through Friday, and $3\frac{1}{2}$ hours on Saturday morning. If the employee's goal is to work 40 hours, how many additional hours (h) must he work?

Complete.

3. $6 \text{ T} = \underline{\hspace{2cm}} \text{ lb}$

4. $3 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

5. $\underline{\hspace{2cm}} \text{ oz} = 5 \text{ lb}$

6. $5,000 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$

7. $8 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

8. $20,000 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$

Write a mixed number in simplest form to represent the number of pounds equivalent to each number of ounces.

9. $66 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

10. $52 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

11. $24 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

12. $76 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

13. $82 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

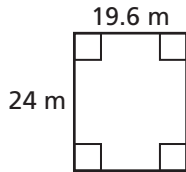
14. $46 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

15. **Stretch Your Thinking** List three different real world situations in which a line plot would be the best choice to organize and display the data.

Homework

Find the perimeter and the area of the rectangle.

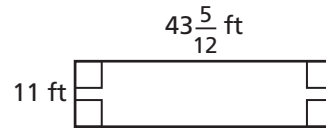
1.



$$P = \underline{\hspace{2cm}}$$

$$A = \underline{\hspace{2cm}}$$

2.

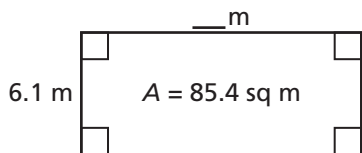


$$P = \underline{\hspace{2cm}}$$

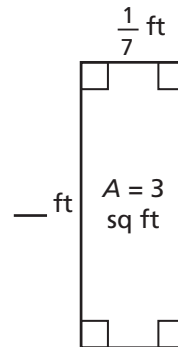
$$A = \underline{\hspace{2cm}}$$

Find the side length of the rectangle.

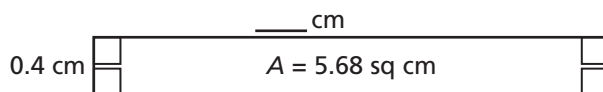
3.



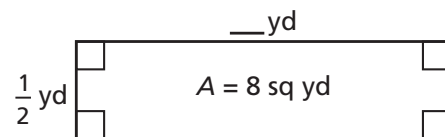
4.



5.



6.



Solve.

7. Gerard ran out of tile for his patio. The width of the remaining area is $2\frac{2}{9}$ feet. The length of the remaining area is 7 feet. How much does Gerard have left to tile?

8. Kyra is building a dollhouse. The carpet for the bedroom is 27 square inches. The length of the bedroom is 6 inches. How long is the width?

Remembering

The graph shown represents a skier traveling at a constant speed.

1. The points on the graph represent four ordered (x, y) pairs. Write the ordered pairs.

(____, ____) (____, ____) (____, ____) (____, ____)

2. Complete the table to show the relationship that time and distance share.

Time (hours)	0			
Distance (miles)	0			

3. At what constant rate of speed was the skier traveling? Explain how you know.

4. Dayna surveyed her classmates to find out how many e-mails they send per day. Then, she drew this line plot with the data. Use the line plot to answer questions about the e-mails sent.

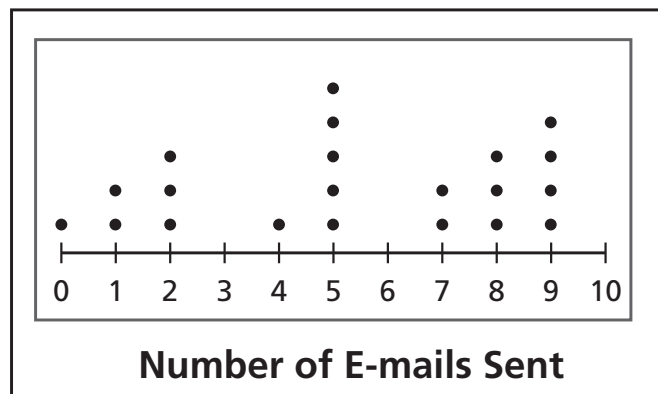
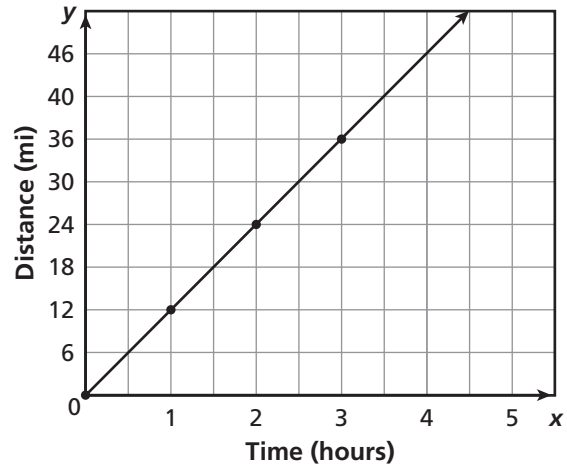
- a. How many classmates were surveyed?

- b. How many classmates sent fewer than 5 e-mails?

- c. How many classmates sent at least 7 e-mails?

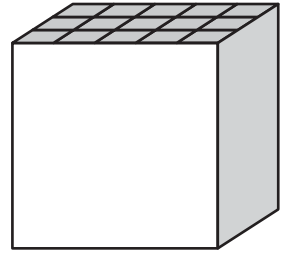
5. **Stretch Your Thinking** Find the fractional side lengths of a rectangle that has a perimeter of $64\frac{5}{6}$ inches. Then find the area of the rectangle.

Ski Travel



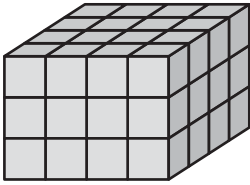
Homework

1. Alison had a box in the shape of a cube. She decided to use centimeter cubes to find the volume of the box. It took 75 centimeter cubes to fill the box with no gaps. What was the volume of the box?
- _____



Find the number of unit cubes and the volume.

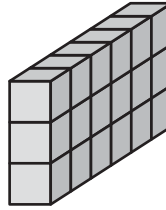
2.



Number of unit cubes: _____

Volume: _____

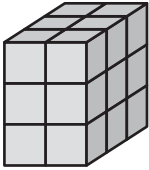
3.



Number of unit cubes: _____

Volume: _____

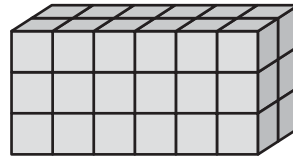
4.



Number of unit cubes: _____

Volume: _____

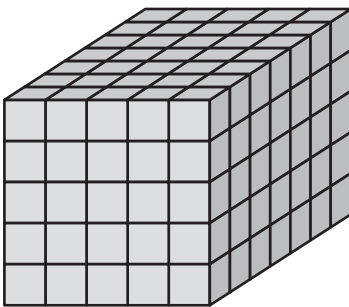
5.



Number of unit cubes: _____

Volume: _____

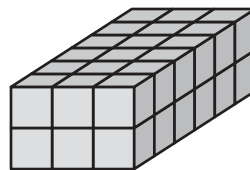
6.



Number of unit cubes: _____

Volume: _____

7.



Number of unit cubes: _____

Volume: _____

Remembering

Write the computation in words.

1. $4.5 \div 0.5 + 0.1$ _____

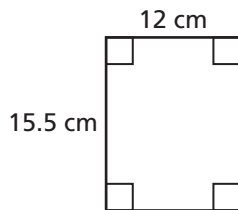
2. $6 \div \frac{1}{6}$ _____

3. $4 \cdot (5 - 2)$ _____

4. $11 - c$ _____

Find the perimeter and the area of the rectangle.

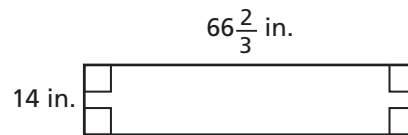
5.



$P =$ _____

$A =$ _____

6.



$P =$ _____

$A =$ _____

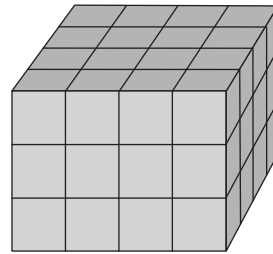
7. **Stretch Your Thinking** Draw a sketch to show two figures that have the same number of unit cubes that look different from each other.

Homework

Use the prism on the right to answer the questions.

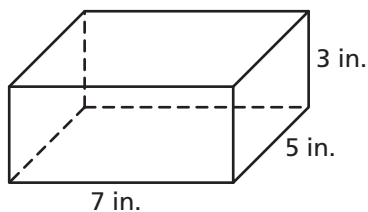
- How many cubes are in 1 layer? _____
- How many layers are in the prism? _____
- Write a multiplication expression for the volume.

- What is the volume of the prism? _____



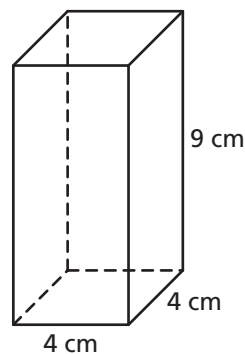
Find the volume.

5.



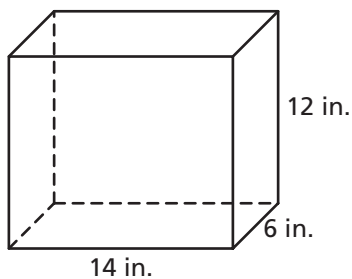
Volume: _____

6.



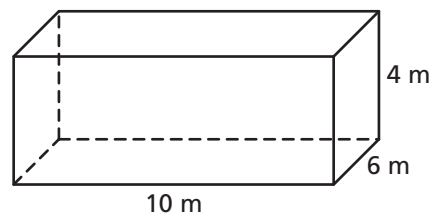
Volume: _____

7.



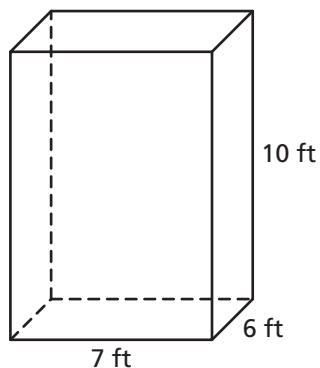
Volume: _____

8.



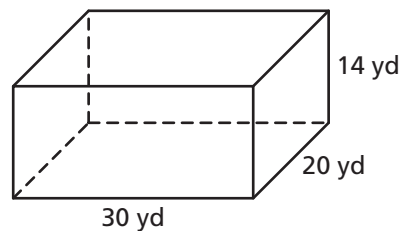
Volume: _____

9.



Volume: _____

10.



Volume: _____

Remembering

Solve. Follow the Order of Operations.

1. $21 - 6 + 3 - 6$

2. $(7.9 - 5.1) \cdot (0.2 + 0.8)$

3. $6 \cdot 10 \div 5$

4. $\frac{1}{5} \cdot \frac{1}{5} \div \frac{1}{5}$

5. $(2\frac{3}{8} - \frac{1}{4}) \times \frac{1}{8}$

6. $\frac{5}{8} - 3 \cdot \frac{1}{16}$

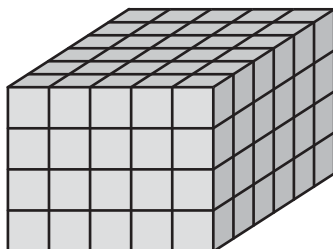
7. $16 \div 0.2 + 15 \div 0.03$

8. $64 \div (6.6 + 1.4) \cdot 2$

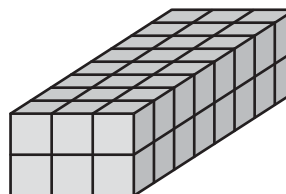
9. $0.7 - 0.9 \div 3 + 0.6$

Find the number of unit cubes and the volume.

10.



11.



Number of unit cubes: _____

Number of unit cubes: _____

Volume: _____

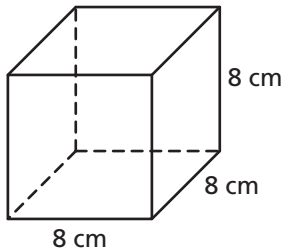
Volume: _____

12. **Stretch Your Thinking** I'm a figure with six layers. Each of my layers is the same. My bottom layer has a perimeter of 28 units, and my volume is between 200 and 300 cubic units. What is my volume?
- _____

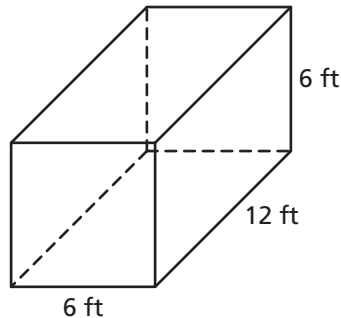
Homework

Write a numerical expression for the volume. Then calculate the volume.

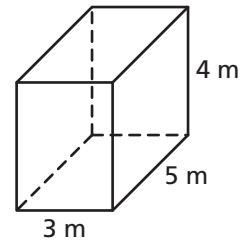
1.



2.



3.



Expression: _____

Expression: _____

Expression: _____

Volume: _____

Volume: _____

Volume: _____

Find the unknown dimension or volume of each rectangular prism.

4. $V = \underline{\hspace{2cm}}$

$l = 4 \text{ cm}$

$w = 4 \text{ cm}$

$h = 11 \text{ cm}$

5. $V = 168 \text{ cu yd}$

$l = \underline{\hspace{2cm}}$

$w = 7 \text{ yd}$

$h = 3 \text{ yd}$

6. $V = 90 \text{ cu in.}$

$l = 9 \text{ in.}$

$w = \underline{\hspace{2cm}}$

$h = 5 \text{ in.}$

Write an equation. Then solve.

7. Pattie built a rectangular prism with cubes. The base of her prism has 12 centimeter cubes. If her prism was built with 108 centimeter cubes, how many layers does her prism have?

8. Isabella cares for an aquarium that is 6 feet long and has a height of 4 feet. The aquarium needs 72 cubic feet of water to be completely filled. What is the width of the aquarium?

9. Ray's aquarium is 20 inches long, 20 inches wide, and has a height of 15 inches. Randal's aquarium is 40 inches long, 12 inches wide, and has a height of 12 inches. Whose aquarium has a greater volume? By how much?

Remembering

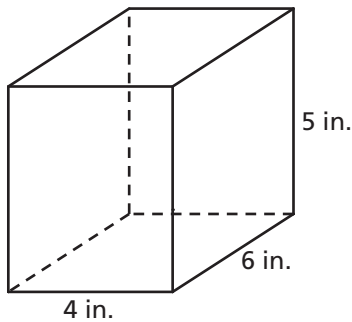
Add or subtract.

1. $0.45 + 0.77 =$ _____ 2. $0.4 + 0.08 =$ _____ 3. $6.9 - 3.44 =$ _____

4. $7 - 2.2 =$ _____ 5. $0.66 + 0.96 =$ _____ 6. $5.7 - 0.9 =$ _____

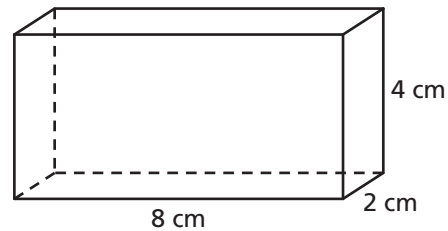
Find the volume.

7.



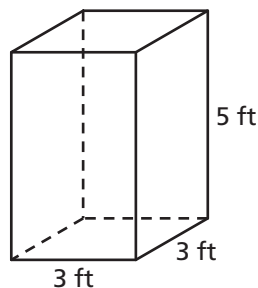
Volume: _____

8.



Volume: _____

9. **Stretch Your Thinking** Give the dimensions of a crate that could be used to ship 6 of the boxes below. Allow for some air space between the boxes so they can fit in the crate.



Homework

For each question, write whether you would measure for length, area, or volume.

1. the amount of space inside a moving van _____
2. the number of tiles needed to cover a bathroom floor _____
3. the distance from a porch to a tree _____
4. the amount of water a tank holds _____
5. the height of a flagpole _____

Solve.

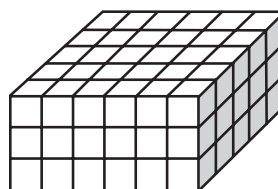
6. A box is 5 inches long, 4 inches wide, and 1 inch deep. How much space is inside the box?

7. Aponi built a toy chest for her niece. It has a volume of 12 cubic feet. The chest is 3 feet long and 2 feet wide. How deep is it?

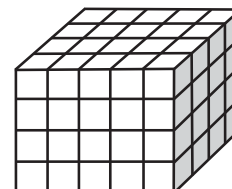
8. The rug in Alan's room has an area of 18 square feet. He is planning to buy another rug that is twice as long and twice as wide. What is the area of the new rug?

9. Each drawer in Monique's nightstand has a volume of 6 cubic decimeters. Each drawer in her dresser is twice as long, twice as wide, and twice as deep. What is the volume of one of Monique's dresser drawers?

10. Fong and Daphne built these structures. Who used more cubes? How many more?



Fong



Daphne

Remembering

Solve.

$$\begin{array}{r} 1. \quad 3.8 \\ \times 5.4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 0.30 \\ \times 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 3.3 \\ \times 0.78 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 0.04 \\ \times 7.3 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 0.6 \\ \times 5.14 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8.3 \\ \times 2.8 \\ \hline \end{array}$$

Find the unknown dimension or volume of each rectangular prism.

$$7. V = \underline{\hspace{2cm}}$$

$$l = 7 \text{ cm}$$

$$w = 4 \text{ cm}$$

$$h = 9 \text{ cm}$$

$$8. V = 200 \text{ cu yd}$$

$$l = \underline{\hspace{2cm}}$$

$$w = 5 \text{ yd}$$

$$h = 5 \text{ yd}$$

$$9. V = 160 \text{ cu in.}$$

$$l = 10 \text{ in.}$$

$$w = \underline{\hspace{2cm}}$$

$$h = 4 \text{ in.}$$

$$10. V = \underline{\hspace{2cm}}$$

$$l = 10 \text{ cm}$$

$$w = 8 \text{ cm}$$

$$h = 6 \text{ cm}$$

$$11. V = 297 \text{ cu m}$$

$$l = \underline{\hspace{2cm}}$$

$$w = 9 \text{ m}$$

$$h = 3 \text{ m}$$

$$12. V = 126 \text{ cu in.}$$

$$l = 9 \text{ in.}$$

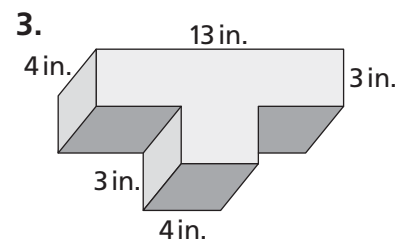
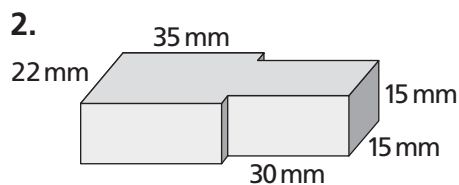
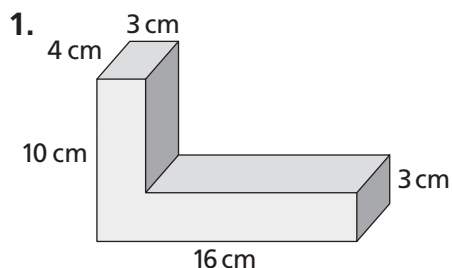
$$w = \underline{\hspace{2cm}}$$

$$h = 7 \text{ in.}$$

13. **Stretch Your Thinking** Give one real world example for measuring each of the following: perimeter, area, volume.

Homework

Find the volume of each composite solid figure.



4. The exterior of a refrigerator is shaped like a rectangular prism, and measures $2\frac{2}{3}$ feet wide by $5\frac{1}{2}$ feet high by $2\frac{1}{2}$ feet deep. What amount of space does the refrigerator take up?
- _____

5. In the space below, draw a composite solid of your own design that is made up of two prisms. Write the dimensions of your design, and then calculate its volume.
- _____

Remembering

Divide

1. $0.7 \overline{)49}$

2. $0.05 \overline{)50}$

3. $0.8 \overline{)0.64}$

4. $0.06 \overline{)36}$

5. $0.3 \overline{)939.6}$

6. $0.06 \overline{)27.3}$

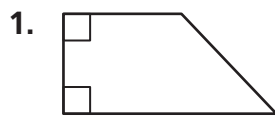
Solve.

7. A fish tank is 20 feet long, 12 feet wide, and 10 feet deep. What is the volume of the fish tank?

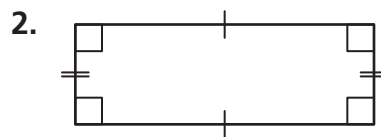
8. **Stretch Your Thinking** Draw a composite solid in the space below using two different rectangular prisms. Label the length and width using fractions of units. The figures do not need to be to scale. Find the volume of the figure.

Homework

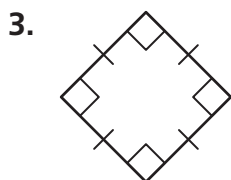
Circle all the names that describe the shape.



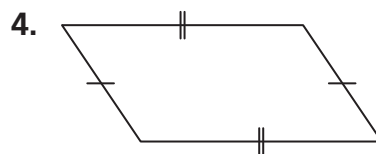
quadrilateral trapezoid
 parallelogram rhombus
 rectangle square



quadrilateral trapezoid
 parallelogram rhombus
 rectangle square



quadrilateral trapezoid
 parallelogram rhombus
 rectangle square



quadrilateral trapezoid
 parallelogram rhombus
 rectangle square

Sketch a shape that fits the description, if possible.

5. a trapezoid with two right angles

6. a rhombus with a line of symmetry

7. a parallelogram with a right angle that is not a rectangle

8. a rectangle with opposite sides that are not congruent

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad \frac{5}{6} \\ - \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \frac{3}{4} \\ - \frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{3}{16} \\ - \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{5}{9} \\ + \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{3}{5} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \frac{1}{6} \\ + \frac{2}{3} \\ \hline \end{array}$$

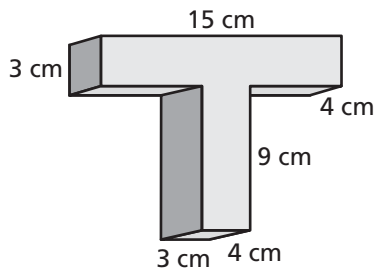
$$\begin{array}{r} 7. \quad 6 \\ - 3\frac{2}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 1\frac{4}{9} \\ + 4\frac{2}{3} \\ \hline \end{array}$$

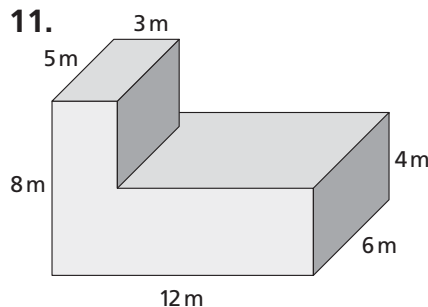
$$\begin{array}{r} 9. \quad 6\frac{4}{5} \\ - 2\frac{1}{10} \\ \hline \end{array}$$

Find the volume of each composite solid.

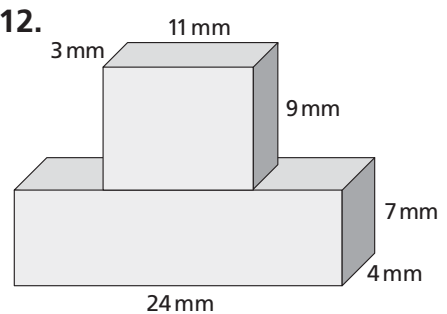
10.



11.



12.

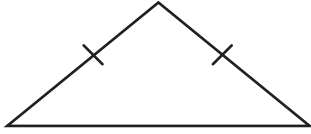


13. **Stretch Your Thinking** Explain why a square is always a rectangle but a rectangle is not always a square.

Homework

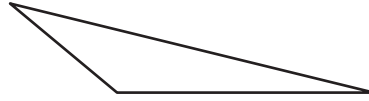
Circle all the names that describe the shape.

1.



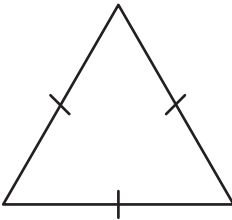
acute scalene
 right isosceles
 obtuse equilateral

2.



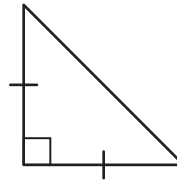
acute scalene
 right isosceles
 obtuse equilateral

3.



acute scalene
 right isosceles
 obtuse equilateral

4.



acute scalene
 right isosceles
 obtuse equilateral

Sketch a shape that fits the description, if possible.

5. a triangle with two obtuse angles

6. a right scalene triangle

7. an acute triangle that is not equilateral

8. a scalene triangle with a line of symmetry

Remembering

Solve.

1. $\frac{1}{5} \div 6 =$ _____

2. $7 \div \frac{1}{4} =$ _____

3. $\frac{6}{7} \cdot \frac{1}{5} =$ _____

4. $\frac{1}{10} \div 5 =$ _____

5. $4 \cdot \frac{1}{5} =$ _____

6. $\frac{1}{3} \cdot 14 =$ _____

Find each product by first rewriting each mixed number as a fraction.

7. $\frac{3}{5} \cdot 1\frac{1}{6} =$ _____

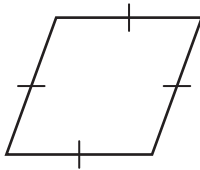
8. $2\frac{2}{3} \cdot 6 =$ _____

9. $4\frac{5}{6} \cdot 2\frac{1}{5} =$ _____

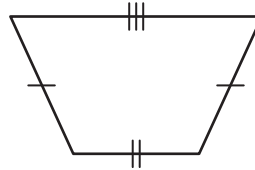
10. $4\frac{1}{4} \cdot \frac{3}{8} =$ _____

Circle all the names that describe the shape.

11.



12.



quadrilateral trapezoid

quadrilateral trapezoid

parallelogram rhombus

parallelogram rhombus

rectangle square

rectangle square

13. **Stretch Your Thinking** The sum of the lengths of any two sides of a triangle must be greater than the length of the third side. List three side lengths that will form a triangle. Use a ruler and draw the triangle.

Homework

Draw a shape that fits the description. Mark all congruent segments and right angles.

1. an open shape made up of one or more curves
2. a concave quadrilateral with an acute angle and exactly two congruent sides
3. a closed shape that is not a polygon made entirely of segments
4. a convex pentagon with two parallel sides and two perpendicular sides
5. a concave hexagon with two pairs of congruent sides
6. a quadrilateral with four congruent sides that is not regular

Remembering

Simplify. Follow the Order of Operations.

1. $61 - 300 \div 6$

2. $0.8 \div (0.09 - 0.07)$

3. $4 \cdot 9 - 12 \div 3$

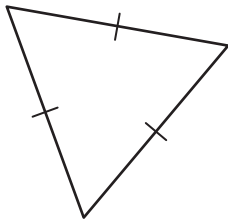
4. $(\frac{5}{12} + \frac{3}{4}) \cdot 12$

5. $44 + 29 - 13 + 34$

6. $100 \div (6 - 2) \cdot 5$

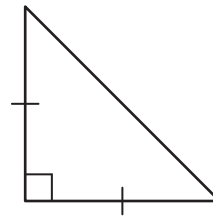
Circle all the names that describe the shape.

7.



acute scalene
 right isosceles
 obtuse equilateral

8.



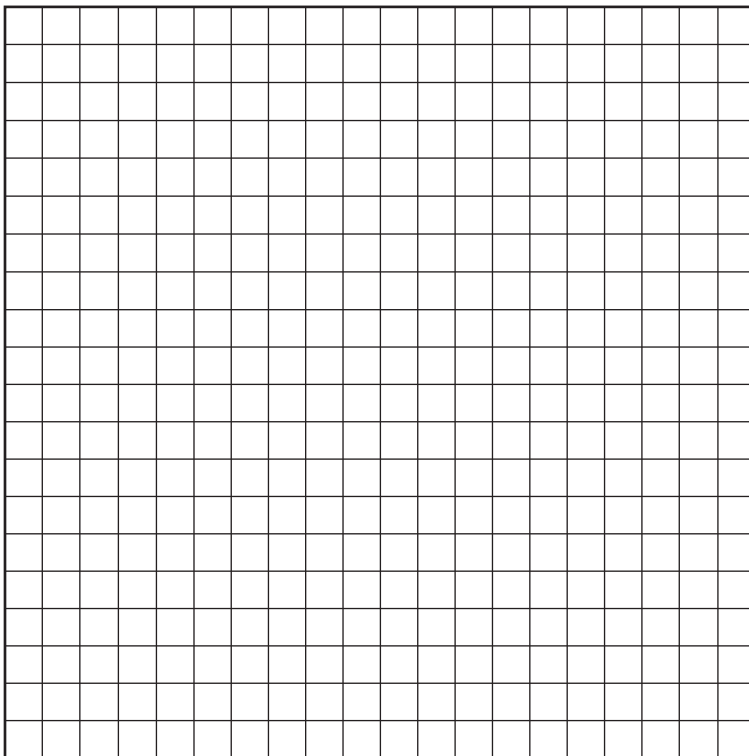
acute scalene
 right isosceles
 obtuse equilateral

9. **Stretch Your Thinking** Write a description of a two-dimensional shape and then draw the shape.

Homework

Solve.

1. On the grid below, draw and label an aquarium shaped like a rectangular prism with a volume of 8,000 cubic inches. (Hint: A cube is a rectangular prism, and $2 \times 2 \times 2 = 8$.)
2. Calculate the perimeter of the top of your aquarium. Then calculate the area of its base.
 $P =$ _____
 $A =$ _____
3. The rectangular prism you drew for Problem 1 is not the only rectangular prism that has a volume of 8,000 cubic inches. Other prisms are possible. On the grid below, use a new color and draw a different rectangular prism that has a volume of 8,000 cubic inches.



Remembering

Complete the pattern.

1. $22 \times 10^1 = 22 \times 10 =$ _____

$22 \times 10^2 = 22 \times 100 =$ _____

$22 \times 10^3 = 22 \times 1,000 =$ _____

$22 \times 10^4 = 22 \times 10,000 =$ _____

2. $412 \times 10^1 =$ _____ $= 4,120$

$412 \times 10^2 = 412 \times 100 =$ _____

$412 \times 10^3 =$ _____ $= 412,000$

$412 \times 10^4 = 412 \times 10,000 =$ _____

3. $56 \times 10^1 =$ _____ $= 560$

$56 \times 10^2 =$ _____ $= 5,600$

$56 \times 10^3 =$ _____ $= 56,000$

$56 \times 10^4 =$ _____ $= 560,000$

4. $8 \times 10^1 = 8 \times 10 =$ _____

$8 \times 10^2 = 8 \times 100 =$ _____

$8 \times 10^3 = 8 \times 1,000 =$ _____

$8 \times 10^4 = 8 \times 10,000 =$ _____

Draw a shape that fits the description. Mark all congruent segments and right angles.

5. a triangle with a right angle and exactly two congruent sides

6. a concave octagon with all sides congruent

7. **Stretch Your Thinking** List the dimensions of two different rectangular prisms in which each has a volume of 6,600 cubic centimeters.
