

**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.

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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?

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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?

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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.

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# Homework

Complete.

1.  $5,811 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

2.  $297 \text{ L} = \underline{\hspace{2cm}} \text{ kL}$

3.  $1.09 \text{ kL} = 1,090 \underline{\hspace{2cm}}$

4.  $32,500 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

5.  $53.1 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

6.  $5.66 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

7.  $2,848 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

8.  $431 \text{ L} = \underline{\hspace{2cm}} \text{ kL}$

9.  $0.56 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

10.  $0.78 \text{ L} = 780 \underline{\hspace{2cm}}$

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?
- \_\_\_\_\_

**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?
- \_\_\_\_\_

**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.

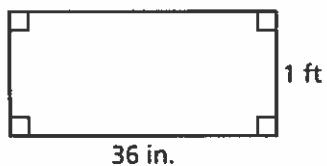
10. \_\_\_\_\_ yd = 432 in.

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

12. 90 ft = \_\_\_\_\_ yd

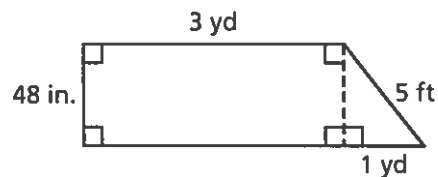
Find the perimeter of each figure in feet.

13.



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

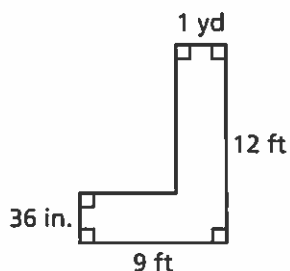
14.



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

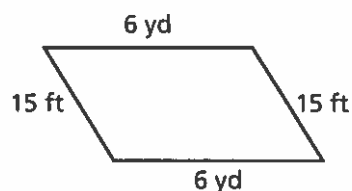
Find the perimeter of each figure in yards.

15.



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

16.



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

**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.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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?

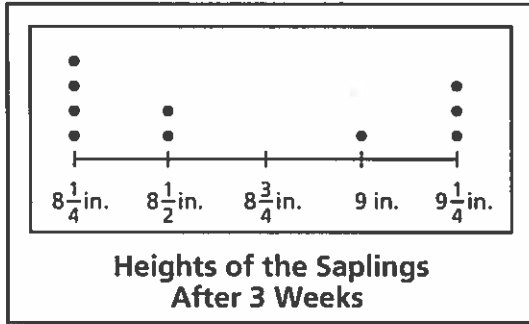
\_\_\_\_\_

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?

\_\_\_\_\_

# 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.

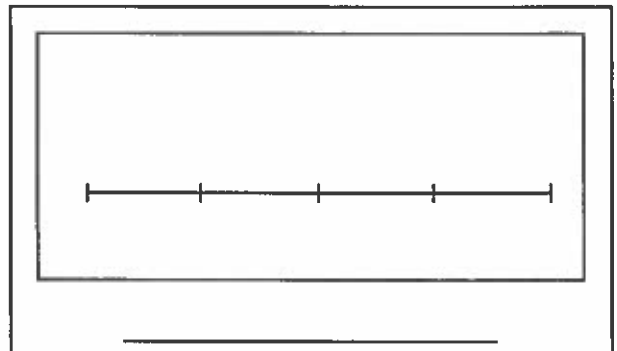
- a. Draw a line plot of the puppies' weights.
- b. Use the line plot to write and answer a question about the data.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

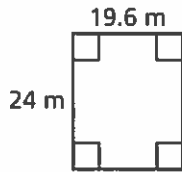
\_\_\_\_\_



# Homework

Find the perimeter and the area of the rectangle.

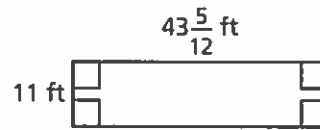
1.



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

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

2.

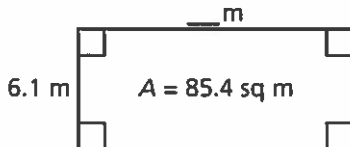


$$P = \underline{\hspace{2cm}}$$

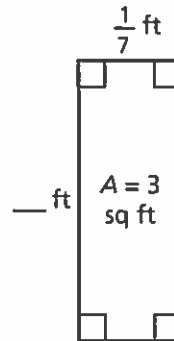
$$A = \underline{\hspace{2cm}}$$

Find the side length of the rectangle.

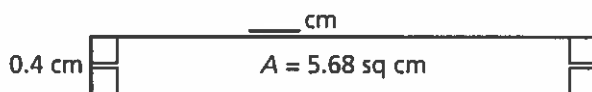
3.



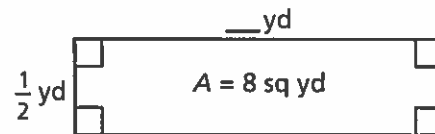
4.



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?

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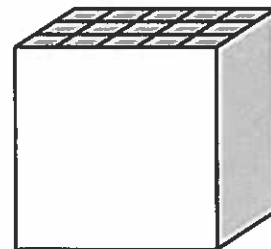
8. Kyra is building a dollhouse. The carpet for the bedroom is 27 square inches. The length of the bedroom is 6 inches. How long is the width?

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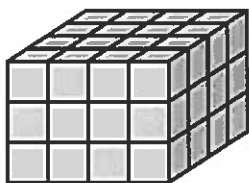
# Homework

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: \_\_\_\_\_

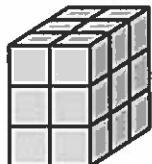
3.



Number of unit cubes: \_\_\_\_\_

Volume: \_\_\_\_\_

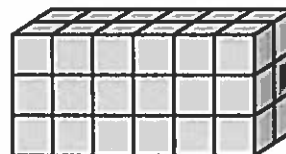
4.



Number of unit cubes: \_\_\_\_\_

Volume: \_\_\_\_\_

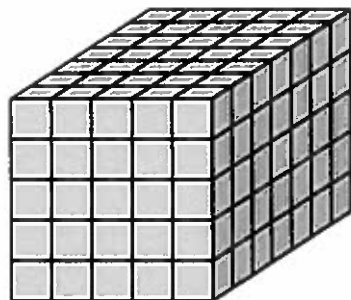
5.



Number of unit cubes: \_\_\_\_\_

Volume: \_\_\_\_\_

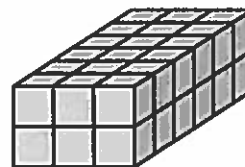
6.



Number of unit cubes: \_\_\_\_\_

Volume: \_\_\_\_\_

7.



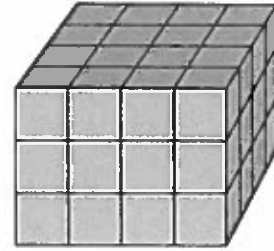
Number of unit cubes: \_\_\_\_\_

Volume: \_\_\_\_\_

# Homework

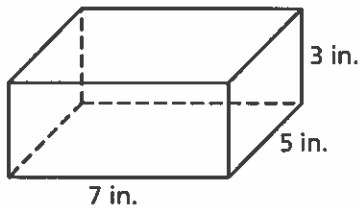
Use the prism on the right to answer the questions.

1. How many cubes are in 1 layer? \_\_\_\_\_
2. How many layers are in the prism? \_\_\_\_\_
3. Write a multiplication expression for the volume.  
\_\_\_\_\_
4. What is the volume of the prism? \_\_\_\_\_



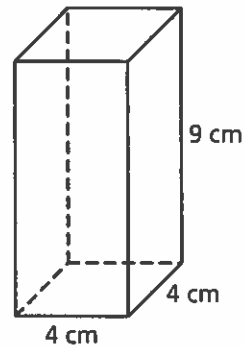
Find the volume.

5.



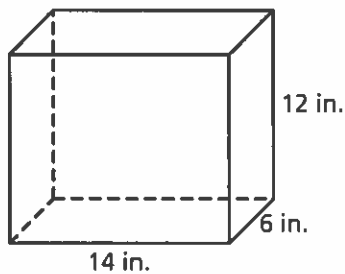
Volume: \_\_\_\_\_

6.



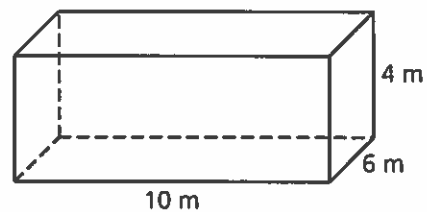
Volume: \_\_\_\_\_

7.



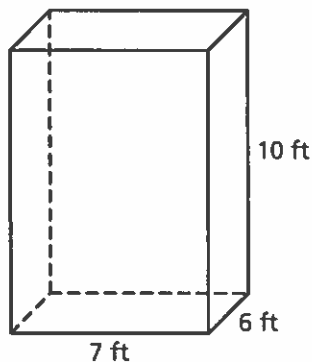
Volume: \_\_\_\_\_

8.



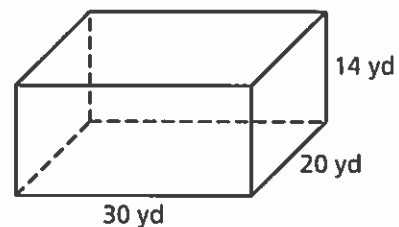
Volume: \_\_\_\_\_

9.



Volume: \_\_\_\_\_

10.

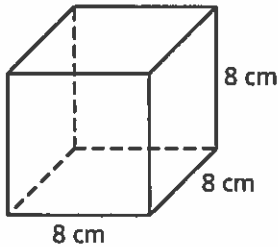


Volume: \_\_\_\_\_

**Homework**

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

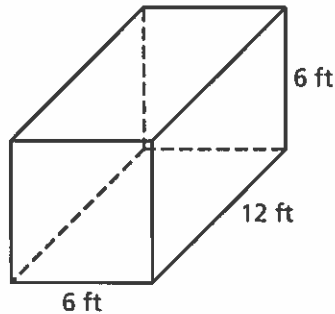
1.



Expression: \_\_\_\_\_

Volume: \_\_\_\_\_

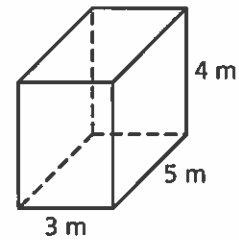
2.



Expression: \_\_\_\_\_

Volume: \_\_\_\_\_

3.



Expression: \_\_\_\_\_

Volume: \_\_\_\_\_

Find the unknown dimension or volume of each rectangular prism.

4.  $V =$  \_\_\_\_\_

$l = 4$  cm

$w = 4$  cm

$h = 11$  cm

5.  $V = 168$  cu yd

$l =$  \_\_\_\_\_

$w = 7$  yd

$h = 3$  yd

6.  $V = 90$  cu in.

$l = 9$  in.

$w =$  \_\_\_\_\_

$h = 5$  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?

\_\_\_\_\_

# 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?

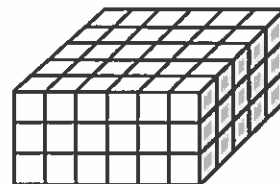
\_\_\_\_\_

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?

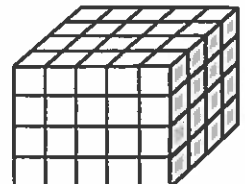
\_\_\_\_\_

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

\_\_\_\_\_



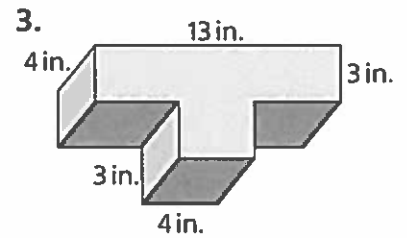
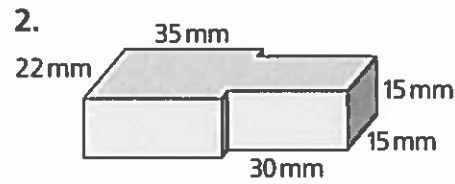
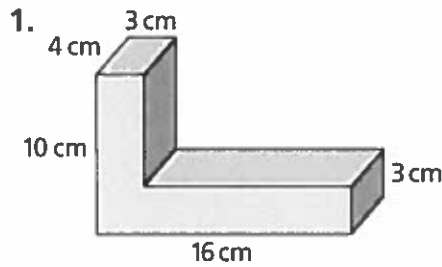
Fong



Daphne

# 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.
- \_\_\_\_\_