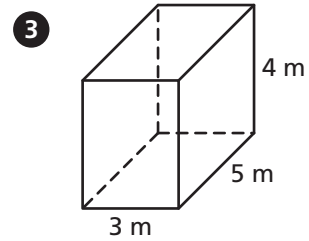
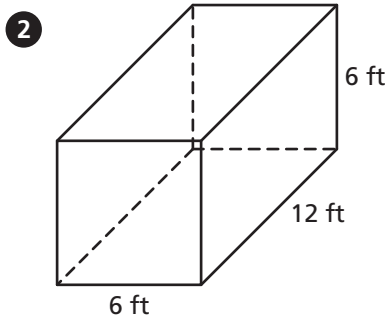
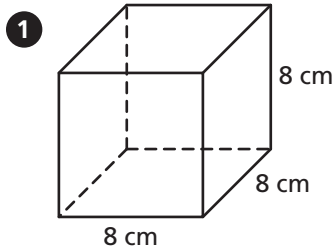


8-6 Homework

Name _____

Date _____

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



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?

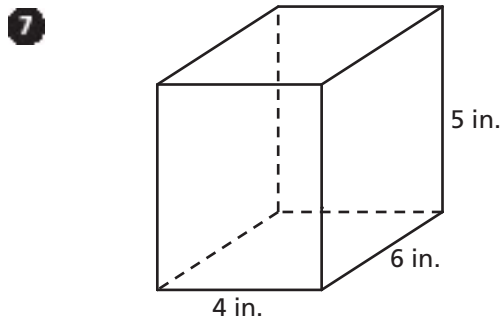
- 9 Ray's aquarium is 20 inches long, 20 inches wide, and has a height of 15 inches. Randal's aquarium is 40 inches long, 12 inches wide, and has a height of 12 inches. Whose aquarium has a greater volume? By how much?

Add or subtract.

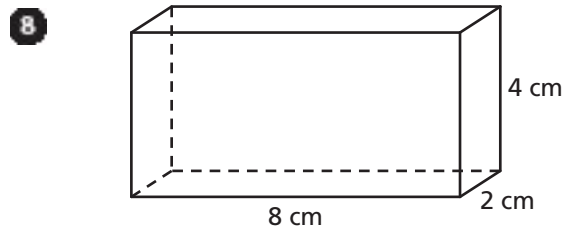
1 $0.45 + 0.77 =$ _____ 2 $0.4 + 0.08 =$ _____ 3 $6.9 - 3.44 =$ _____

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

Find the volume.



Volume: _____



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.

