



# Surface Area and Volume

## Vocabulary

**Fill in the blanks.**

**Use the words in the box.**

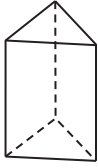
1. A cube has 6 faces. Each face is a \_\_\_\_\_.
2. A \_\_\_\_\_ is a solid figure with two parallel and congruent bases joined by rectangular faces.
3. The base of a \_\_\_\_\_ is a triangle.
4. The \_\_\_\_\_ is the amount of space an object occupies.
5. The \_\_\_\_\_ is the maximum amount of liquid a container can hold.
6. The \_\_\_\_\_ of a square, a rectangle, and a triangle can be found by using \_\_\_\_\_.

prism  
triangular prism  
formulas  
capacity  
area  
volume  
square

## Concepts and Skills

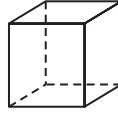
Identify each figure.

7.



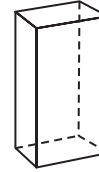
\_\_\_\_\_

8.



\_\_\_\_\_

9.



\_\_\_\_\_

Complete.

10.



a. What is the volume of the juice in the jug?

\_\_\_\_\_

b. What is the capacity of the jug?

\_\_\_\_\_

Solve.

11. The capacity of a fish tank is 30 liters.  $\frac{2}{3}$  of the tank is filled with water. Find the volume of the water in the tank.

## Problem Solving

**Solve. Show your work.**

- 12.** Look at the floor plan for an apartment. The bathroom floor is in the shape of a square. What is the total area of the floor of the apartment?

