

## Finding Volume Using Formulas

Name: \_\_\_\_\_

### Solve each problem.

- 1 Susan has a box for paperclips on her desk. The box is 6 centimeters long, 3 centimeters wide, and 2 centimeters high. What is the volume of the box?
- 2 The base of Jada's toy box is a rectangle with length 4 feet and width 3 feet. The height of the toy box is 2 feet. What is the volume of the toy box?
- 3 What is the volume of a rectangular prism with a length of 4 centimeters, a width of 1 centimeter, and a height of 7 centimeters?
- 4 How much space is taken up by a rectangular tissue box that is 5 inches long, 4 inches wide, and 5 inches high?
- 5 The base of Tim's closet is a rectangle that is 4 feet long and 2 feet wide. The closet is 7 feet high. What is the volume of Tim's closet?
- 6 A rectangular prism is 3 inches high, 9 inches long, and 3 inches wide. What is the volume of the prism?
- 7 The base of a rectangular prism is 8 meters long and 5 meters wide. Its height is 3 meters. What is the volume of the prism?
- 8 A recipe box is 6 inches long, 3 inches wide, and 4 inches high. What is the volume of the recipe box?
- 9 Esteban buys cereal in a box that is 10 inches high, 7 inches long, and 2 inches wide. What is the volume of the cereal box?
- 10 The base of a rectangular crayon box is 8 centimeters long and 4 centimeters wide. Its height is 10 centimeters. What is the volume of the crayon box?
- 11 What volume formula did you use to solve problem 10? Explain how you used the formula.