

Unit 1: Finding Volume

PRACTICE • SET 2

Name: _____ Date: _____

Find each volume. Show your work and give the volume in cubic units. Use $V = \text{length} \times \text{width} \times \text{height}$ for a rectangular prism.

1. A right rectangular prism has length 6 cm, width 4 cm, and height 3 cm. What is its volume in cubic centimeters?

Answer: _____

2. Find the volume of a right rectangular prism with length 10 in, width 5 in, and height 2 in.

Answer: _____

3. A rectangular box is 8 ft long, 3 ft wide, and 5 ft tall. What is its volume in cubic feet?

Answer: _____

4. A cube has an edge length of 4 m. What is its volume in cubic meters?

Answer: _____

5. A right rectangular prism has a base area of 24 square inches and a height of 7 inches. What is its volume in cubic inches?

Answer: _____

6. A right rectangular prism is built from unit cubes. It is 5 cubes long, 3 cubes wide, and 4 cubes high. How many unit cubes make up the prism?

Answer: _____

7. A fish tank is a right rectangular prism 12 cm long, 9 cm wide, and 10 cm high. What is its volume in cubic centimeters?

Answer: _____

8. A right rectangular prism has a volume of 96 cubic feet. Its length is 8 ft and its width is 4 ft. What is its height in feet?

Answer: _____

9. A solid figure is made of two right rectangular prisms. The first prism is 4 cm by 3 cm by 2 cm, and the second prism is 5 cm by 2 cm by 2 cm. What is the total volume of the figure in cubic centimeters?

Answer: _____

10. An L-shaped solid is made of two rectangular prisms. One part measures 6 in by 4 in by 3 in and the other part measures 2 in by 4 in by 3 in. What is the total volume in cubic inches?

Answer: _____

11. A right rectangular prism has length 7 m, width 6 m, and height 10 m. What is its volume in cubic meters?

Answer: _____

12. A step-shaped solid is formed from two prisms. The bottom prism is 10 cm by 6 cm by 2 cm, and the top prism sitting on it is 4 cm by 6 cm by 3 cm. What is the total volume in cubic centimeters?

Answer: _____