

Unit 1: Finding Volume

CONCEPT

Name: _____ Date: _____

Find each volume. Use $\text{Volume} = \text{length} \times \text{width} \times \text{height}$, and count cubic units. Write your answer as a number of cubic units.

1. A right rectangular prism has length 4 units, width 3 units, and height 2 units. What is its volume in cubic units?

Answer: _____

2. A rectangular box is 5 cm long, 2 cm wide, and 3 cm high. Find its volume in cubic cm.

Answer: _____

3. A prism is built from unit cubes. It is 6 cubes long, 1 cube wide, and 4 cubes high. How many unit cubes does it contain?

Answer: _____

4. A cube has an edge length of 3 units. What is its volume in cubic units?

Answer: _____

5. A right rectangular prism has a base area of 12 square units and a height of 5 units. What is its volume in cubic units? ($\text{Volume} = \text{base area} \times \text{height}$)

Answer: _____

6. A box is 2 m long, 2 m wide, and 6 m high. Find its volume in cubic m.

Answer: _____

7. One layer of unit cubes covers a base that is 5 cubes long and 3 cubes wide. If the prism is 2 layers tall, how many unit cubes are there in all?

Answer: _____

8. A right rectangular prism has length 7 units, width 2 units, and height 1 unit. What is its volume in cubic units?

Answer: _____

9. A fish tank is 8 in long, 3 in wide, and 4 in high. What is its volume in cubic inches?

Answer: _____

10. A prism has a base area of 9 square units and a height of 4 units. What is its volume in cubic units?

Answer: _____

11. A figure is made of two rectangular prisms stacked together. One prism has a volume of 15 cubic units and the other has a volume of 10 cubic units. What is the total volume in cubic units?

Answer: _____

12. A composite figure is made of two prisms. The first is 3 units by 2 units by 2 units. The second is 4 units by 1 unit by 2 units. What is the combined volume in cubic units?

Answer: _____