

Unit 1: Finding Volume

CONCEPT · SET 2

Name: _____ Date: _____

Find each volume. Write just the number (volume is in cubic units) unless the question asks for yes or no.

1. Mia packs a craft box with 1-centimeter cubes. Each layer holds 10 cubes, and the box holds 4 layers. How many cubic centimeters is the volume of the box?

Answer: _____

3. A foam block is a cube. Every edge is 5 inches long. What is its volume in cubic inches?

Answer: _____

5. A drawer is a rectangular prism with a volume of 96 cubic inches. It is 8 inches long and 4 inches wide. How many inches tall is it?

Answer: _____

7. A birdhouse is made of two rectangular prisms stacked. The bottom prism is 8 in long, 4 in wide, and 3 in high. The top prism is 4 in long, 4 in wide, and 2 in high. What is the total volume in cubic inches?

Answer: _____

9. Two juice cartons are exactly the same size. Each one is 3 cm long, 3 cm wide, and 4 cm tall. What is the volume of both cartons together, in cubic centimeters?

Answer: _____

2. A hamster tunnel box is 7 cm long, 3 cm wide, and 2 cm high. What is its volume in cubic centimeters?

Answer: _____

4. A flower planter is a rectangular prism. The area of its base is 24 square inches and its height is 5 inches. What is its volume in cubic inches?

Answer: _____

6. A storage bin holds 60 cubic feet. It is 3 feet wide and 4 feet high. How many feet long is it?

Answer: _____

8. A garden bed is shaped like two rectangular prisms joined side by side. One part is 6 ft long, 2 ft wide, and 1 ft deep. The other part is 3 ft long, 2 ft wide, and 1 ft deep. What is the total volume in cubic feet?

Answer: _____

10. A backpack pocket is 9 inches long, 2 inches wide, and 5 inches deep. Does it hold at least 100 cubic inches? Answer yes or no.

Answer: _____

11. A cereal box is a rectangular prism with a volume of 84 cubic centimeters and a height of 4 centimeters. What is the area of its base in square centimeters?

Answer: _____

12. A crate is filled with 1-foot cubes. The bottom layer holds 18 cubes, and the crate's volume is 90 cubic feet. How many layers of cubes are in the crate?

Answer: _____