Nepedia · Grade-5

Unit 1: Finding Volume

PRACTICE · SET 4

Name: _____ Date: _____

Find each volume. Write only the number as your answer (units are given in each problem), except where the problem asks for yes or no.

1. Maya fills a box with 1-inch cubes. Each layer has 6 cubes across and 3 cubes back, and she stacks 4 layers. How many cubic inches is the volume of the box?

Answer: _____

2. A freezer drawer is a rectangular prism 14 cm long, 6 cm wide, and 5 cm tall. What is its volume in cubic centimeters?

Answer: _____

3. A gift box is a rectangular prism. The area of its base is 24 square centimeters and its height is 7 cm. What is the volume of the box in cubic centimeters?

Answer: _____

4. A garden bin is a rectangular prism with a volume of 210 cubic feet. It is 7 ft long and 5 ft wide. How tall is the bin in feet?

Answer: _____

5. A pencil case is a rectangular prism with a volume of 288 cubic inches. It is 8 inches long and 6 inches tall. How wide is it in inches?

Answer: _____

6. A locker is a rectangular prism with a volume of 480 cubic inches and a height of 8 inches. What is the area of its base in square inches?

Answer: _____

7. A wooden block is a cube. Each edge is 9 cm long. What is the volume of the cube in cubic centimeters?

Answer: _____

8. A concrete step is made of two rectangular prisms stacked together. The bottom prism is 10 cm long, 4 cm wide, and 3 cm tall. The top prism is 4 cm long, 4 cm wide, and 3 cm tall. What is the total volume in cubic centimeters?

Answer: _____

9. An L-shaped planter is made of two rectangular prisms pushed together. One prism is 12 in long, 5 in wide, and 4 in tall. The other prism is 3 in long, 5 in wide, and 4 in tall. What is the total volume in cubic inches?

Answer: _____

10. A sandbox is made of two rectangular prisms joined side by side. The big part is 8 ft long, 6 ft wide, and 1 ft deep. The small part is 3 ft long, 2 ft wide, and 1 ft deep. What is the total volume of sand it holds, in cubic feet?

Answer: _____

11. Box A is 6 in long, 5 in wide, and 4 in tall. Box B is 8 in long, 3 in wide, and 5 in tall. Do the two boxes have the same volume? Answer yes or no.

Answer: _____

12. A moving truck is loaded with 12 identical crates. Each crate is 2 ft long, 3 ft wide, and 5 ft tall. What is the total volume of all 12 crates in cubic feet?

Answer: _____