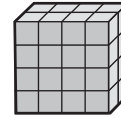


Models and Volume

Volume is the measure of space inside a solid figure. If you had a box, the number of cubic units it would take to fill the box would be the volume.

Find the volume of this box in cubic units by counting the number of unit cubes.

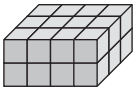


There are 16 cubes in the front layer and there are two layers. The total number of unit cubes is 32.

So, the volume is 32 cubic units.

In **1** through **6**, find the volume in cubic units.

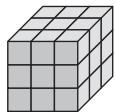
1.



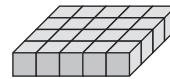
2.



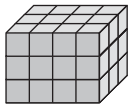
3.



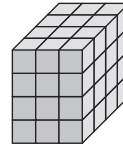
4.



5.



6.



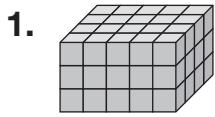
7. Draw a solid figure that has a volume of 10 cubic units.

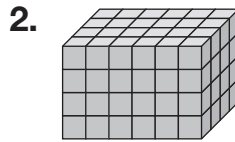
8. A jewelry store received a package of rings that is 16 inches long, 10 inches wide, and 12 inches high. The package contains 1-inch cubes that each hold one ring. How many rings did the jewelry store receive? Explain how you found your answer.

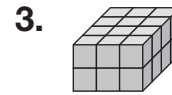
Name _____

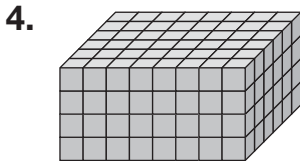
Models and Volume

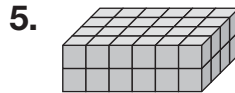
Find the number of cubes needed to make each rectangular prism. You can use unit cubes or you can count the cubes by looking at the drawing.

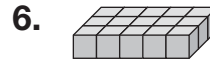












7. In the space below, draw a model of a rectangular prism 5 cubes long \times 4 cubes wide \times 2 cubes high.

8. How many cubes would it take to make a model of a rectangular prism that is 3 units long \times 2 units wide \times 4 units high?

A 48

B 24

C 12

D 6

9. How can you find the volume of a rectangular prism using a model?
