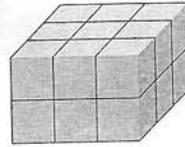


# Volume

**Volume** is the measure of the inside of a solid figure. Volume is measured in **cubic units**. A cubic unit is a cube with edges that are each 1 unit long.

To find the volume of a rectangular prism, follow these steps:



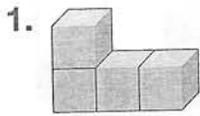
1. Count the number of cubes in each layer.
2. Multiply the number of cubes in each layer by the number of layers.

There are 9 cubes in each layer.

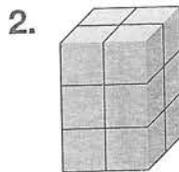
There are 2 layers.  
 $2 \times 9 = 18$

The volume of the rectangular prism is 18 cubic units.

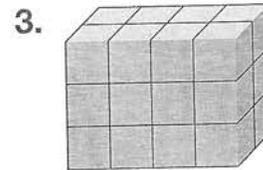
Find the volume of each figure in cubic units.



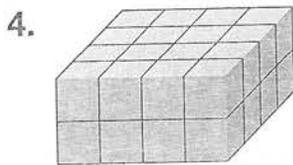
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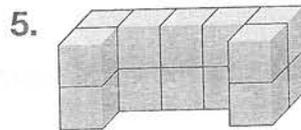
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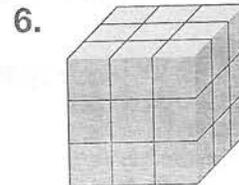
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\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

7. **Explain It** How did you find the volume of the figure in Exercise 6?

\_\_\_\_\_

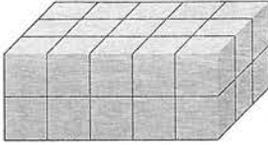
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\_\_\_\_\_

# Volume

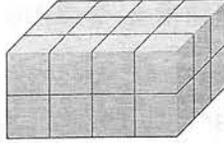
Find the volume of each figure in cubic units.

1.



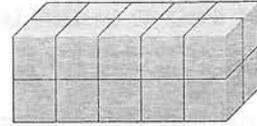
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2.



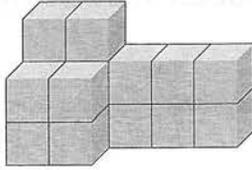
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3.



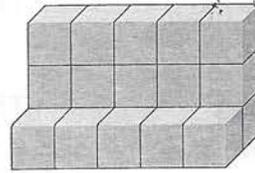
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4.



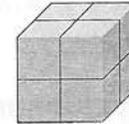
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5.



\_\_\_\_\_

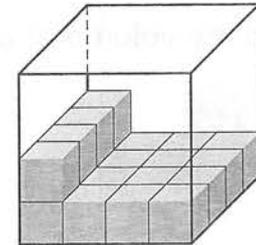
6.



\_\_\_\_\_

7. **Estimation** Use the cubes shown at the right to estimate the volume of the rectangular prism.

\_\_\_\_\_



8. Kevin made a rectangular prism with 8 cubes in each layer. The prism has 4 layers. What is the volume of the rectangular prism?

\_\_\_\_\_

9. **Explain It** How is finding volume different from finding area?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. What is the volume of the figure at the right?

- A 12 cubic units      C 27 cubic units  
B 24 cubic units      D 36 cubic units

