

Volume Measurement Practice

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5th Grade Math Practice

Name: _____

Date: _____

Solve each problem. Show your work when needed.

1. A rectangular prism has dimensions 3 cm x 4 cm x 5 cm. What is its volume in cubic centimeters?
2. If a box can hold 24 unit cubes, what is the volume of the box in cubic centimeters?

3. Circle the greater volume: 30 cubic cm or 40 cubic cm
4. What number comes next in the sequence of volumes of cubes?
1, 8, 27, ____
5. A prism with a volume of 20 cubic cm can have dimensions of 2 cm x 5 cm x 2 cm.
 True False
6. A tank can hold 15 unit cubes of water. If it already has 5 unit cubes, how many more can it hold?

7. Calculate the volume of a cube that is 2 cm on each side.
8. If a box measures 2 cm by 3 cm by 6 cm, what is its volume?

9. Which has a greater volume: a cube with side length 4 cm or a rectangular prism with dimensions 3 cm x 3 cm x 3 cm?
10. All rectangular prisms have different volumes.
 True False
11. A rectangular prism has a volume of 48 cubic cm. If the length is 4 cm and the height is 2 cm, what is the width?

12. Find the volume of a rectangular prism with dimensions 7 cm, 3 cm, and 2 cm.
13. Complete the pattern of volumes: 1, 8, 27, ____, 125
14. If a cube has a volume of 64 cubic cm, what is the length of each side?

15. Which has more volume: 5 unit cubes or 6 unit cubes?

Answer Key

1. 60 2. 24 3. 40 4. 64 5. True 6. 10 7. 8 8. 36 9. cube with side length 4 cm 10. False 11. 6 12. 42 13. 64 14. 4 15. 6