

Volume in the Real World

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5th Grade Math Practice

Name: _____

Date: _____

Solve each problem. Show your work when needed.

1. Find the volume of a box that is 4 cm wide, 5 cm long, and 10 cm high. Volume = _____

2. A fish tank measures 3 feet long, 2 feet wide, and 2 feet high. What is its volume in cubic feet?

3. A shipment box is 2 m wide, 3 m long, and 1.5 m high. What is the volume of the box?

4. Calculate the volume of a cylinder with a radius of 3 cm and height of 5 cm. Use $\pi \approx 3.14$. Volume = _____

5. Circle the greater volume: A box with 50 cm^3 or a box with 70 cm^3

6. A water tank holds 150 gallons. If it is currently filled to $\frac{2}{5}$ of its capacity, how many gallons are currently in the tank?

7. What number comes next? 12, 24, 36, _____

8. The volume of a cube with sides of 3 cm is 9 cm^3 .

True False

9. If a rectangular container is 4 ft long, 3 ft wide, and 2 ft high, what is the volume of the container?

10. A box has a volume of 1000 cm^3 . If the length is 10 cm and the width is 5 cm, what is the height? Height = _____

11. A storage unit is 6 m long and 4 m wide. If the height is 2 m, what is the volume of the storage unit?

12. Circle the greater volume: A box with a volume of 30 cm^3 or a box with a volume of 45 cm^3

13. A rectangular garden is 10 m long and 5 m wide. If you want to fill it with soil to a height of 0.5 m, how much soil do you need?

14. Calculate the volume of a rectangular prism with dimensions 7 in, 4 in, and 3 in. Volume = _____

15. A barrel holds 200 liters of water. If it is filled to $\frac{3}{4}$ of its capacity, how many liters of water are in the barrel?

Answer Key

1. 200 2. 12 3. 9 4. 141.3 5. 70 6. 60 7. 48 8. False 9. 24 10. 20 11. 48 12. 45 13. 25 14. 84 15. 150