

5th Grade Volume Word Problems

5th Grade - volume of rectangular prisms in context | 20 minutes

Name: _____ Date: _____

Read each problem. Use $V = \text{length} \times \text{width} \times \text{height}$. Write the equation and the answer in cubic units.

Example: A box is 5 cm by 3 cm by 2 cm: $V = 5 \times 3 \times 2 = 30$ cubic cm.

1. A box is 4 cm long, 3 cm wide, and 5 cm tall. What is its volume?

2. A fish tank is 10 in by 6 in by 8 in. What is its volume?

3. A crate is 2 ft by 2 ft by 3 ft. How much can it hold?

4. A drawer is 12 cm by 5 cm by 4 cm. Find its volume.

5. A storage box is 7 in long, 4 in wide, and 9 in tall. What is its volume?

6. A cube has edges of 5 cm. What is its volume?

Challenge

7. Two boxes each measure $3 \times 3 \times 2$ cm. What is their total volume?

8. Why is volume measured in cubic units?
