

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Volume

Complete the table by filling in the correct answers

| Width (w) | Length (l) | Height (h) | Volume                |
|-----------|------------|------------|-----------------------|
| 1. 6 cm   | 4 cm       | 1 cm       | _____ cm <sup>3</sup> |
| 2. 2 m    | 4 m        | 10 m       | _____ m <sup>3</sup>  |
| 3. 2 dm   | 10 dm      | 3 dm       | _____ dm <sup>3</sup> |
| 4. 3 cm   | 4 cm       | 15 cm      | _____ cm <sup>3</sup> |

## Converting Capacity

5. \_\_\_\_\_ millilitres = 25 litres
6. \_\_\_\_\_ Cubic centimetres = 7 litres
7. \_\_\_\_\_ Cubic metres = 290 litres
8. \_\_\_\_\_ millilitres = 16 litres
9. \_\_\_\_\_ Cubic centimetres = 30 litres
10. \_\_\_\_\_ millilitres = 22 litres

## Base and Volume

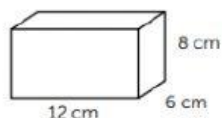
Sometimes the length and width have already been multiplied together for you. When this happens, it is called the **base**. When you know the value of the base, all you have to do is multiply the base times the height to find the volume of the object.

**base** = length x width

**volume** = base x height

**Directions:** Find the volume of each object using the base and height.

**Example:**

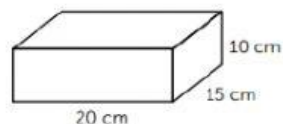


**base** =  $12 \times 6$ , so the base is **72 cm<sup>2</sup>**

To find the volume, multiply the base times the height.

**V** = base x height    **V** =  $72 \times 8$     **V** = **576 cm<sup>3</sup>**

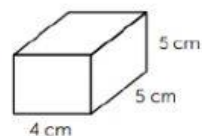
**1.**



base = 300 cm<sup>2</sup>

$$\begin{array}{c} \text{_____} \\ \text{(base)} \end{array} \times \begin{array}{c} \text{_____} \\ \text{(height)} \end{array} = \begin{array}{c} \text{_____} \\ \text{(volume)} \end{array}$$

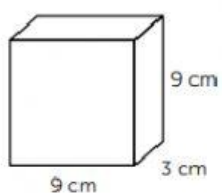
**2.**



base = 20 cm<sup>2</sup>

$$\begin{array}{c} \text{_____} \\ \text{(base)} \end{array} \times \begin{array}{c} \text{_____} \\ \text{(height)} \end{array} = \begin{array}{c} \text{_____} \\ \text{(volume)} \end{array}$$

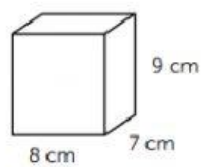
3.



base =  $27 \text{ cm}^2$

$$\frac{\text{---}}{\text{(base)}} \times \frac{\text{---}}{\text{(height)}} = \frac{\text{---}}{\text{(volume)}}$$

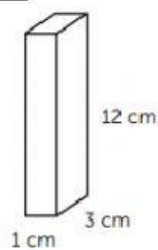
4.



base =  $56 \text{ cm}^2$

$$\frac{\text{---}}{\text{(base)}} \times \frac{\text{---}}{\text{(height)}} = \frac{\text{---}}{\text{(volume)}}$$

5.



base =  $3 \text{ cm}^2$

$$\frac{\text{---}}{\text{(base)}} \times \frac{\text{---}}{\text{(height)}} = \frac{\text{---}}{\text{(volume)}}$$