

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 ³
2. 2 m	4 m	10 m	_____ m ³
3. 2 dm	10 dm	3 dm	_____ dm ³
4. 3 cm	4 cm	15 cm	_____ cm ³

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

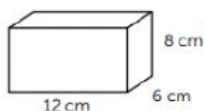
Sometimes the length and width have already been multiplied together for you. When this happens, it is called the **base**. When you know the value of the base, all you have to do is multiply the base times the height to find the volume of the object.

base = length x width

volume = base x height

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

Example:

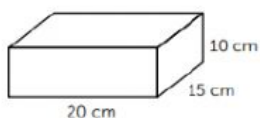


base = 12 x 6, so the base is **72 cm²**

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

V = base x height **V** = 72 x 8 **V** = **576 cm³**

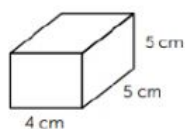
1.



base = 300 cm²

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

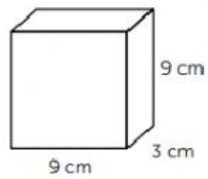
2.



base = 20 cm²

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

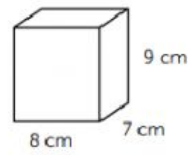
3.



base = 27 cm^2

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

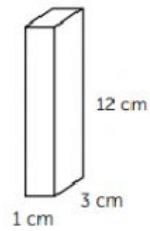
4.



base = 56 cm^2

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

5.



base = 3 cm^2

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