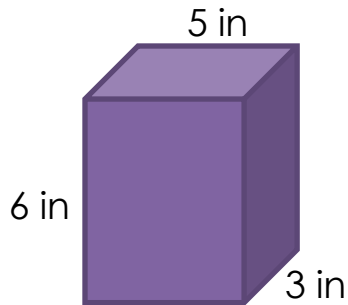


# Volume of rectangular prisms

## Grade 4 Geometry Worksheet

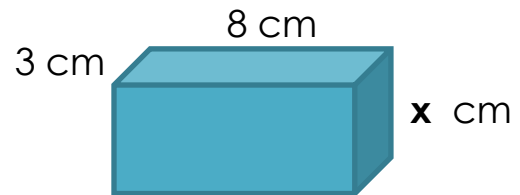
**Volume = length x width x height**

1.



$$\begin{aligned} \text{Volume} &= \underline{\quad} \times \underline{\quad} \times \underline{\quad} \\ &= \underline{\quad} \text{ in}^3 \end{aligned}$$

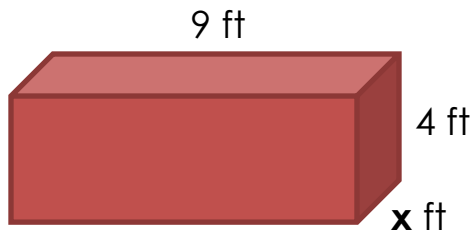
2.



If the volume of the prism is  $120 \text{ cm}^3$ ,

$$x = \underline{\quad}$$

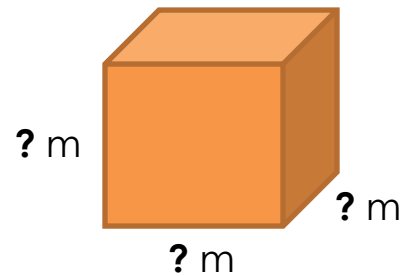
3.



If the volume of the prism is  $72 \text{ ft}^3$ ,

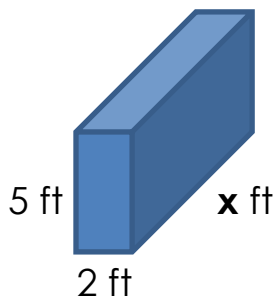
$$x = \underline{\quad}$$

4.



If the volume of the cube is  $125 \text{ m}^3$ ,  
each side of this cube is  $\underline{\quad} \text{ m}$ .

5.



If the volume of the prism is  $100 \text{ ft}^3$ ,

$$x = \underline{\quad}$$

6.



$$\begin{aligned} \text{Volume} &= \underline{\quad} \times \underline{\quad} \times \underline{\quad} \\ &= \underline{\quad} \text{ in}^3 \end{aligned}$$

## Answers

1. Volume = 5 in x 3 in x 6 in  
= **90 in<sup>3</sup>**

2.  $x = \mathbf{5\text{ cm}}$

3.  $x = \mathbf{2\text{ ft}}$

4. each side of the cube is **5 m**

5.  $x = \mathbf{10\text{ ft}}$

6. Volume = 12 in x 3 in x 2 in  
= **72 in<sup>3</sup>**