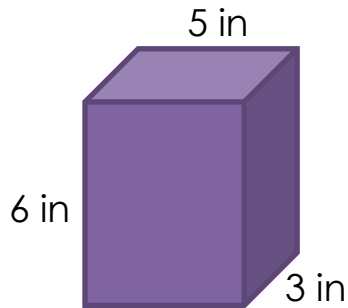


Volume of rectangular prisms

Grade 4 Geometry Worksheet

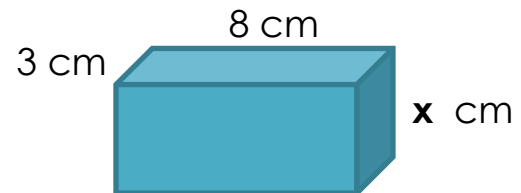
$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

1.



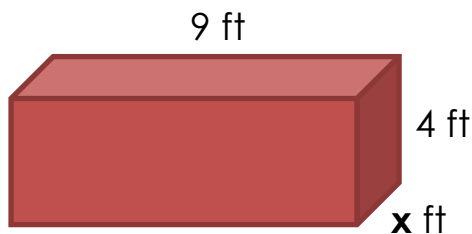
$$\begin{aligned} \text{Volume} &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= \underline{\hspace{1cm}} \text{ in}^3 \end{aligned}$$

2.



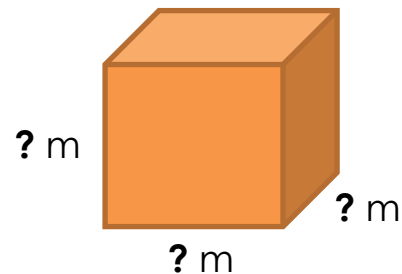
$$\begin{aligned} \text{If the volume of the prism is } 120 \text{ cm}^3, \\ x &= \underline{\hspace{1cm}} \end{aligned}$$

3.



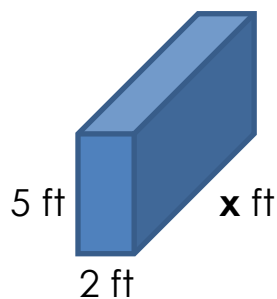
$$\begin{aligned} \text{If the volume of the prism is } 72 \text{ ft}^3, \\ x &= \underline{\hspace{1cm}} \end{aligned}$$

4.



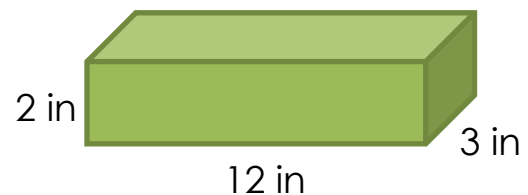
$$\begin{aligned} \text{If the volume of the cube is } 125 \text{ m}^3, \\ \text{each side of this cube is } \underline{\hspace{1cm}} \text{ m.} \end{aligned}$$

5.



$$\begin{aligned} \text{If the volume of the prism is } 100 \text{ ft}^3, \\ x &= \underline{\hspace{1cm}} \end{aligned}$$

6.



$$\begin{aligned} \text{Volume} &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= \underline{\hspace{1cm}} \text{ in}^3 \end{aligned}$$

Answer

1. Volume = 5 in x 3 in x 6 in

= 90 in³

2. x = **5 cm**

3. x = **2 ft**

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

5. x = **10 ft**

6. Volume = 12 in x 3 in x 2 in

= 72 in³