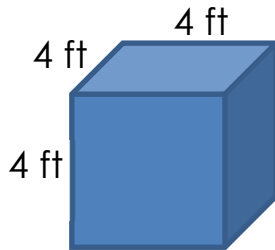


# Volume of rectangular prisms

## Grade 4 Geometry Worksheet

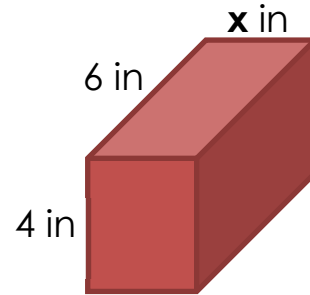
$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

1.



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

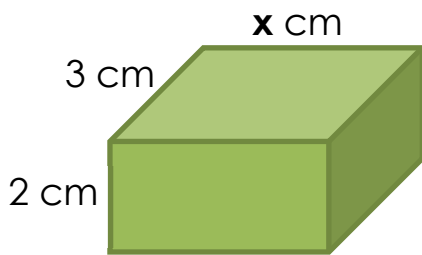
2.



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

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

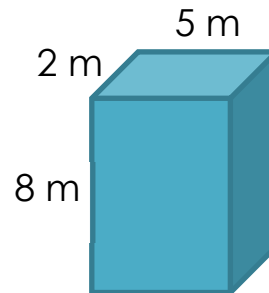
3.



If the volume of the prism is  $30 \text{ cm}^3$ ,

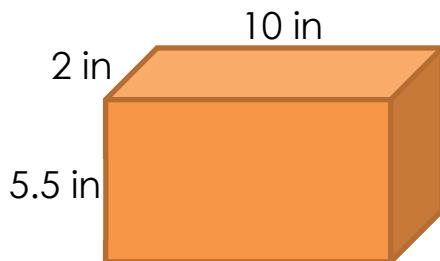
$$x = \underline{\quad}$$

4.



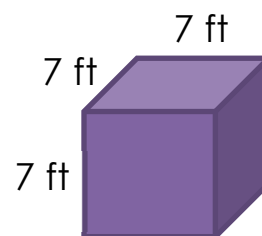
$$\begin{aligned} \text{Volume} &= \underline{\hspace{2cm}} \\ &= \underline{\quad} \text{m}^3 \end{aligned}$$

5.



$$\begin{aligned} \text{Volume} &= \underline{\hspace{2cm}} \\ &= \underline{\quad} \text{in}^3 \end{aligned}$$

6.



$$\begin{aligned} \text{Volume} &= \underline{\hspace{2cm}} \\ &= \underline{\quad} \text{ft}^3 \end{aligned}$$

## Answer

1. Volume =  $4 \text{ ft} \times 4 \text{ ft} \times 4 \text{ ft}$   
=  $64 \text{ ft}^3$

2.  $x = 3 \text{ in}$

3.  $x = 5 \text{ cm}$

4. Volume =  $2 \text{ m} \times 8 \text{ m} \times 5 \text{ m}$   
=  $80 \text{ m}^3$

5. Volume =  $2 \text{ in} \times 10 \text{ in} \times 5.5 \text{ in}$   
=  $110 \text{ in}^3$

6. Volume =  $7 \text{ ft} \times 7 \text{ ft} \times 7 \text{ ft}$   
=  $343 \text{ ft}^3$