

Volume of a Prism

Volume is how much space the inside of the prism with hold.

Example: how much water is in a pool or how much cereal is in the box.

Formula:

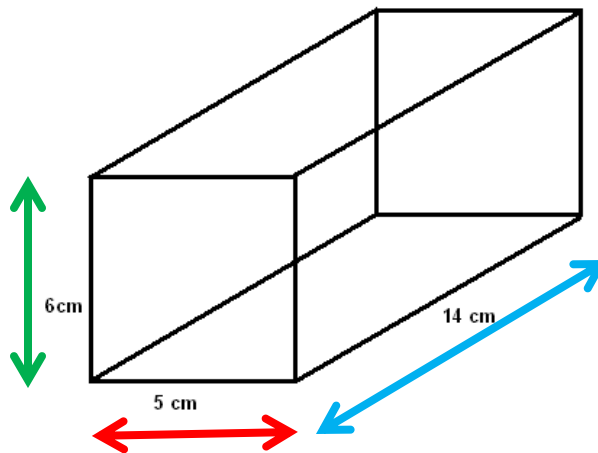
$$\text{Volume (V): } l \times w \times h$$

Note: l = length, w = width, h = height

Steps:

#1 Do I need to convert any of my measurements? (ex. I have one measurement with mm so I need it to match the other measurements that are in cm).

In this example we do not.



#2 Calculate the volume by multiplying the length, width and height.

Length = 5 cm

Width = 14 cm

Length = 6 cm

$$\begin{aligned} V &= l \times w \times h \\ &= 5 \times 14 \times 6 \\ &= 420 \text{ cm}^3 \end{aligned}$$

Don't forget the little 3 on your units! This tells the reader that you are dealing with volume (three-dimensional).