

$$\text{Volume of a Cube/Cuboid} = H \times W \times L$$

1 Find the volume of the following cuboids.

	Height	Width	Length
(i)	5 cm	6 cm	10 cm
(ii)	4 m	2 m	3 m
(iii)	30 mm	40 mm	50 mm
(iv)	2 cm	6 cm	2½ cm
(v)	1.6 m	10 m	2 m
(vi)	3.25 cm	10 cm	10 cm

In these questions make sure you convert to the same units before you multiply.

(vii)	30 mm	6 cm	100 mm	(cm ³)
(viii)	100 cm	200 cm	3 m	(m ³)
(ix)	0.3 m	120 mm	2 cm	(cm ³)
(x)	400 cm	3000 mm	1½ m	(m ³)

2 Find the volume of the following cubes.

(i)	Sides 2 cm	(iv)	Sides 6 cm
(ii)	Sides 3 m	(v)	Sides 50 m
(iii)	Sides 4 cm	(vi)	Sides ½ m

3 A shoe box has dimensions 30 cm by 20 cm by 60 cm. Calculate the volume of the shoe box.

4 A box has a volume of 360 cm³. Find four different sets of dimensions the box could have.

	Height	Width	Length	Volume
(i)				360 cm ³
(ii)				360 cm ³
(iii)				360 cm ³
(iv)				360 cm ³

5 How many cubes of side 2 cm would fit in a cube of side 6 cm? Hint: *You will need to find the volume of each box.*

6 A car's petrol tank measures 50 cm by 60 cm by 20 cm. How many litres of fuel can the petrol tank hold?

7 A light bulb box has dimensions 10 cm by 5 cm by 6 cm. A larger box has dimensions 10 cm by 15 cm by 10 cm. Find the number of light bulb boxes that will fit into the larger box.