

Maths Mastery

Calculate, Estimate and Compare
Volume of Cubes and Cuboids

Estimate Cubes

Estimate the volume of some well known cubes or near cubes:



Calculate the Volume of Cuboids

Complete this table:

Length (cm)	Width (cm)	Height (cm)	Volume (cm ³)
5	20	3	300
11	6	6	396
4	12	9	432
9	9	3	243
14	11	1	154
15	4	7	420

Create a table for a partner to complete.

Hide
Answers

Different Units

Complete this table:

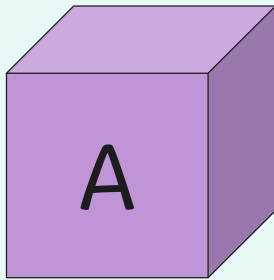
Length	Width	Height	Volume
3m	2cm	3m	0.18m^3
4cm	8cm	9mm	28.8cm^3
9m	30cm	50cm	1.35m^3
8km	450m	3km	10.8km^3
1.2m	45cm	5cm	$27\,000\text{cm}^3$
3m	9cm	6mm	0.00162m^3 or 1620cm^3 or $1\,620\,000\text{mm}^3$

Create some of your own for a partner.

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Answers

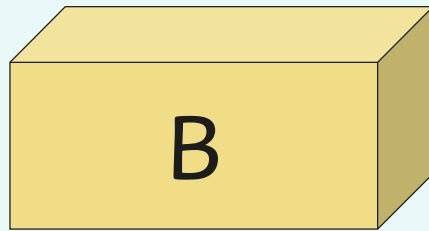
Compare

Here are three 3D shapes. Order them from smallest volume to largest volume.



$5\text{m} \times 5\text{m} \times 5\text{m}$

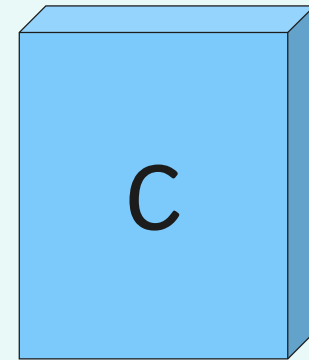
125m^3



$3\text{m} \times 4\text{m} \times 10\text{m}$

120m^3

Smallest B, A, C Largest



$9\text{m} \times 2\text{m} \times 7\text{m}$

126m^3

Challenge a partner to sort compare two or three cuboids by volume.

Hide
Answers

