

Use and apply the density formula

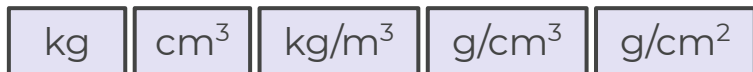
Maths

Mrs Dennett



Use and apply the density formula

1. Which of the units are for density?



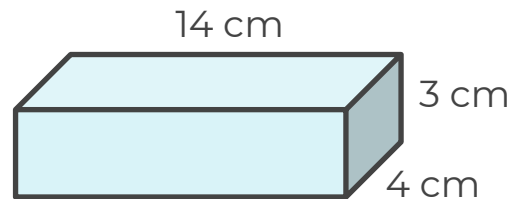
2. Complete the table

Mass	Volume	Density
2 kg	1 m ³	
100 g	10 cm ³	
400 g		20 g/cm ³
	4.5 m ³	4 kg/m ³
12.5 kg		2.5 kg/m ³
	12 cm ³	6 g/cm ³

3. A sample of metal has a mass of 45 g and a volume of 5.3 cm³.

Work out the density of the metal in g/cm³. Give your answer to 1 d.p.

4. Here is a cuboid.



The mass of the cuboid is 460 g.
Work out its density to 1 d.p.
Give units with your answer.

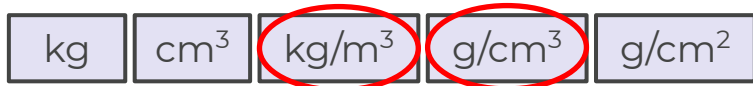


Answers



Use and apply the density formula

1. Which of the units are for density?



2. Complete the table

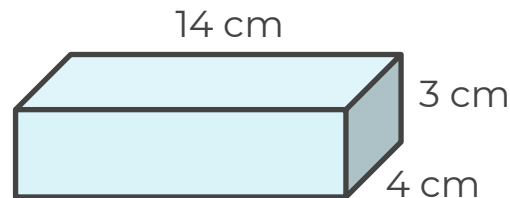
Mass	Volume	Density
2 kg	1 m ³	2 kg/m ³
100 g	10 cm ³	10 g/cm ³
400 g	20 cm ³	20 g/cm ³
18 kg	4.5 m ³	4 kg/m ³
12.5 kg	5 m ³	2.5 kg/m ³
72 g	12 cm ³	6 g/cm ³

3. A sample of metal has a mass of 45 g and a volume of 5.3 cm³.

Work out the density of the metal in g/cm³. Give your answer to 1 d.p.

8.5 g/cm³

4. Here is a cuboid.



The mass of the cuboid is 460 g.

Work out its density to 1 d.p.

Give units with your answer. 2.7 g/cm³

