GCSE HIGHER · REVISION MAT 1

Units and measures

1 Convert 3.5 km to metres.

2 Convert 2.4 m^2 to cm^2.

3 Explain why 1 m^3 = 1 000 000 cm^3.

4 A tank is 2 m by 1.5 m by 0.8 m.

How many litres does it hold?

5 Show that 72 km/h = 20 m/s.

6 One litre of paint covers 12 m^2.

A wall is 450 cm by 280 cm.

How much paint is needed?

7 Show that a density of 8 g/cm^3 is 8000 kg/m^3.

8 A pool is 10 m by 5 m by 1.8 m.

Water flows in at 2.5 litres per second.

How many hours does it take to fill?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Units and measures

1 **3500 m**

2 2.4 × 10 000

24 000 cm²

3 **1 m = 100 cm, so 1 m³**
= 100 × 100 × 100 cm³.

4 2.4 m³

1 m³ = 1000 litres

2400 litres

5 72 000 ÷ 3600

= 20 m/s

6 4.5 × 2.8 = 12.6 m²

12.6 ÷ 12

1.05 litres

7 1 m³ = 1 000
000 cm³ ⇒ 8 000 000 g

8000 kg, so 8000 kg/m³

8 90 m³ = 90 000 litres

90 000 ÷ 2.5 = 36 000 s

10 hours

Mr&Mrs MATHS