GCSE HIGHER · REVISION MAT 3

Units and measures

1 Convert 0.75 litres to ml.

2 Convert 6 cm^2 to mm^2.

3 Explain why
1 cm^3 of water is 1 ml.

4 A runner covers
5 km in 25 minutes.

Find the speed in km/h and in m/s.

5 Show that 0.5 m^3 = 500 litres.

6 Square tiles are 20 cm by 20 cm.

A floor is 3.6 m by 2.4 m.

How many tiles cover the floor?

7 Show that 1 $km^2 = 10^{10}$ cm^2.

8 Gold has a
density of 19.3 g/cm^3.

A bar measures 1.5 cm
by 2 cm by 10 cm.

Find its mass in kg.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Units and measures

1 **750 ml**

2 6 × 100

600 mm²

3 **1 litre = 1000 cm³ = 1000 ml, so 1 cm³ = 1 ml.**

4 **12 km/h**

12 000 ÷ 3600

3.33 m/s

5 1 m³ = 1000 litres

0.5 × 1000 = 500

6 360 ÷ 20 = 18, 240 ÷ 20 = 12

216 tiles

7 1 km = 10^5 cm

$(10^5)^2 = 10^{10}$

8 Volume 30 cm³

30 × 19.3 = 579 g

0.579 kg