GCSE HIGHER · REVISION MAT 4

Units and measures

1 How many minutes are in 2.4 hours?

2 Convert 0.03 m^3 to cm^3.

3 Explain why 2 hours 30 minutes is 2.5 hours, not 2.3 hours.

4 A car uses 6 litres of fuel per 100 km.

How much fuel is needed for 350 km?

5 Show that 1 g/cm^3 = 1000 kg/m^3.

6 A train travels 180 km in 1 hour 20 minutes.

Find its average speed in km/h.

7 Show that 90 km/h = 25 m/s.

8 12 mm of rain falls on a flat roof of area 50 m^2.

How many litres of water fall on the roof?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Units and measures

1 2.4 × 60

144 minutes

2 0.03 × 1 000 000

30 000 cm³

3 **30 minutes is half an hour, which is 0.5 hours.**

4 3.5 × 6

21 litres

5 1 m³ = 1 000 000 cm³ ⇒ 1 000 000 g

1000 kg

6 1 h 20 min = $\frac{4}{3}$ h

$180 \div \frac{4}{3}$

135 km/h

7 90 000 ÷ 3600

= 25 m/s

8 0.012 × 50 = 0.6 m³

600 litres

Mr&Mrs MATHS