GCSE FOUNDATION · REVISION MAT 4

Converting units

1 Convert

(a) 0.6 m^2 to cm^2

(b) 120 000 cm^2 to m^2

2 Change 36 km/h into metres per second.

3 Mo says,

"1 km^2 = 1000 m^2"

Explain why Mo is wrong.

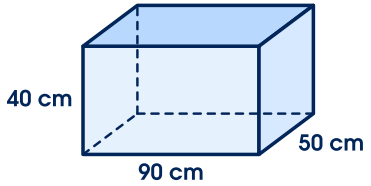
4 Show that 8 m/s is faster than 25 km/h

5 Sam is paid £12.80 per hour.

He works 5 hours 45 minutes
a day, for 3 days a week.

How much is he paid each week?

6 A fish tank is a cuboid.



It is filled with water at 9 litres per minute.

How long does it take to fill the empty tank?
(1 litre = 1000 cm^3)

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Converting units

1 (a) 0.6 × 10 000 = **6 000 cm^2**

(b) 120 000 ÷ 10 000 = **12 m^2**

2 36 km/h = 36 000 m per hour

36000 ÷ 3600 = **10 m/s**

3 1 km^2 = 1000 × 1000 m^2.

The correct value is **1 000 000 m^2**

4 8 m/s × 3600 = 28 800 m/h

= 28.8 km/h, which is more than 25 km/h ✓

5 5 h 45 min = 5.75 hours

£12.80 × 5.75 × 3 = **£220.80**

6 Volume =

90 × 50 × 40 = 180 000 cm^3 = 180 litres

180 ÷ 9 = **20 minutes**