GCSE FOUNDATION · REVISION MAT 3

Converting units

1 Convert

(a) 2.4 m^2 to cm^2

(b) 6 500 cm^2 to m^2

2 Change 90 km/h into metres per second.

3 Lu says,

"1 m^3 = 1000 cm^3"

Explain why Lu is wrong.

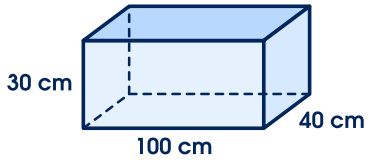
4 Show that 25 m/s is faster than 85 km/h

5 Sam is paid £10.40 per hour.

He works 8 hours 15 minutes
a day, for 5 days a week.

How much is he paid each week?

6 A fish tank is a cuboid.



It is filled with water at 6 litres per minute.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Converting units

1 (a) 2.4 × 10 000 = **24 000 cm^2**

(b) 6 500 ÷ 10 000 = **0.65 m^2**

2 90 km/h = 90 000 m per hour

90000 ÷ 3600 = **25 m/s**

3 1 m^3 = 100 × 100 × 100 cm^3.

The correct value is **1 000 000 cm^3**

4 25 m/s × 3600 = 90 000 m/h

= 90 km/h, which is more than 85 km/h ✓

5 8 h 15 min = 8.25 hours

£10.40 × 8.25 × 5 = **£429.00**

6 Volume =

100 × 40 × 30 = 120 000 cm^3 = 120 litres

120 ÷ 6 = **20 minutes**