GCSE FOUNDATION · REVISION MAT 1

Converting units

1 Convert

(a) 3 m^2 to cm^2

(b) 45 000 cm^2 to m^2

2 Change 72 km/h into metres per second.

3 Jo says,

"1 m^2 = 100 cm^2"

Explain why Jo is wrong.

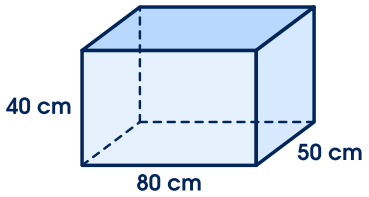
4 Show that 15 m/s is faster than 50 km/h

5 Sam is paid £9.60 per hour.

He works 7 hours 45 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 4 litres per minute.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Converting units

1 (a) $3 \times 10\,000 = \mathbf{30\,000\ cm^2}$

(b) $45\,000 \div 10\,000 = \mathbf{4.5\ m^2}$

2 72 km/h = 72 000 m per hour

$72000 \div 3600 = \mathbf{20\ m/s}$

3 1 m = 100 cm, so 1 m^2 = 100 × 100 cm^2.

The correct value is **10 000 cm^2**

4 15 m/s × 3600 = 54 000 m/h

= 54 km/h, which is more than 50 km/h ✓

5 7 h 45 min = 7.75 hours

£9.60 × 7.75 × 5 = **£372.00**

6 Volume =

80 × 50 × 40 = 160 000 cm^3 = 160 litres

160 ÷ 4 = **40 minutes**