GCSE FOUNDATION · REVISION MAT 5

Converting units

1 Convert

(a) 7 m^2 to cm^2

(b) 9 300 cm^2 to m^2

2 Change 108 km/h into metres per second.

3 Ned says,

"1 cm^3 = 10 mm^3"

Explain why Ned is wrong.

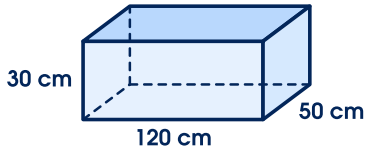
4 Show that 30 m/s is faster than 100 km/h

5 Sam is paid £9.80 per hour.

He works 7 hours 30 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 12 litres per minute.

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

ANSWERS · REVISION MAT 5

Converting units

1 (a) $7 \times 10\,000 = \mathbf{70\,000\ cm^2}$

(b) $9\,300 \div 10\,000 = \mathbf{0.93\ m^2}$

2 108 km/h = 108 000 m per hour

$108000 \div 3600 = \mathbf{30\ m/s}$

3 $1\ cm^3 = 10 \times 10 \times 10\ mm^3$.

The correct value is $\mathbf{1000\ mm^3}$

4 $30\ m/s \times 3600 = 108\,000\ m/h$

= 108 km/h, which is more than 100 km/h ✓

5 7 h 30 min = 7.5 hours

£9.80 × 7.5 × 5 = **£367.50**

6 Volume =

$120 \times 50 \times 30 = 180\,000\ cm^3 = 180$ litres

$180 \div 12 =$ **15 minutes**

Mr&Mrs MATHS