GCSE FOUNDATION · REVISION MAT 2

Converting units

1 Convert

(a) 5 m^2 to cm^2

(b) 82 000 cm^2 to m^2

2 Change 54 km/h into metres per second.

3 Kit says,

"1 cm^2 = 10 mm^2"

Explain why Kit is wrong.

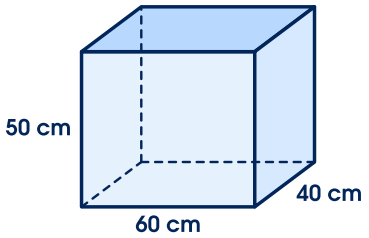
4 Show that 12 m/s is faster than 40 km/h

5 Sam is paid £11.20 per hour.

He works 6 hours 30 minutes
a day, for 4 days a week.

How much is he paid each week?

6 A fish tank is a cuboid.



It is filled with water at 5 litres per minute.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Converting units

1 (a) $5 \times 10\,000 = \mathbf{50\,000\ cm^2}$

(b) $82\,000 \div 10\,000 = \mathbf{8.2\ m^2}$

2 54 km/h = 54 000 m per hour

$54000 \div 3600 = \mathbf{15\ m/s}$

3 1 cm = 10 mm, so $1\ cm^2 = 10 \times 10\ mm^2$.

The correct value is $\mathbf{100\ mm^2}$

4 12 m/s × 3600 = 43 200 m/h

= 43.2 km/h, which is more than 40 km/h ✓

5 6 h 30 min = 6.5 hours

£11.20 × 6.5 × 4 = **£291.20**

6 Volume =

$60 \times 40 \times 50 = 120\,000\ cm^3 = 120$ litres

$120 \div 5 = \mathbf{24\ minutes}$