

Use simple formulae for area and volume

- 1 The formula to find the area of a rectangle is $A \text{ (Area)} = l \text{ (length)} \times w \text{ (width)}$. Use this to find the missing values in the table below.

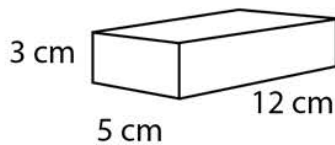
	l	w	A
Rectangle A	4 cm	5 cm	 cm ²
Rectangle B	8 cm	9 cm	 cm ²
Rectangle C	3 m	 m	36 m ²
Rectangle D	 mm	9 mm	117 mm ²
Rectangle E	2.5 m	 m	45 m ²



- 2 Use the formula $V \text{ (Volume)} = l \times w \times h \text{ (height)}$ to find the volume of the cuboids.

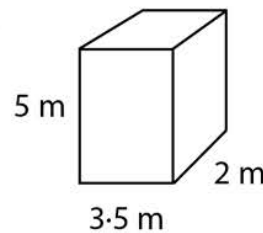
Not to scale

a



$$V = \boxed{} \text{ cm}^3$$

b



$$V = \boxed{} \text{ m}^3$$

- 3 Use the formulae above to identify **two** possible sets of missing values (each side is a whole number).

a Area = 16 cm²

$$16 \text{ cm}^2 = \boxed{} \text{ cm} \times \boxed{} \text{ cm} \text{ or } 16 \text{ cm}^2 = \boxed{} \text{ cm} \times \boxed{} \text{ cm}$$

b Volume = 24 cm³

$$24 \text{ cm}^3 = \boxed{} \text{ cm} \times \boxed{} \text{ cm} \times \boxed{} \text{ cm}$$

$$\text{or } 24 \text{ cm}^3 = \boxed{} \text{ cm} \times \boxed{} \text{ cm} \times \boxed{} \text{ cm}$$