## Converting metric units of area and volume

1. Fill in the gaps to convert the following measurements of area:

a.  $1 \text{ cm}^2 = \text{mm}^2$ b.  $3.5 \text{ cm}^2 = \text{mm}^2$ c.  $7 \text{ m}^2 = \text{cm}^2$ c.  $7 \text{ m}^2 = \text{cm}^2$ d.  $27 \text{ mm}^2 = \text{cm}^2$ e.  $143 \text{ cm}^2 = \text{m}^2$ f.  $34 \text{ cm}^2 = \text{mm}^2$ g.  $3\ 000\ 000\ \text{m}^2 = \text{km}^2$ h.  $4.3 \text{ km}^2 = \text{m}^2$ i.  $3 \text{ m}^2 = \text{mm}^2$ 

2. Fill in the gaps to convert the following measurements of volume:

a.	$4 \text{ cm}^3 =$	mm <sup>3</sup>	b. 17.2 cm <sup>3</sup> =	mm <sup>3</sup>
c.	12 m <sup>3</sup> =	cm <sup>3</sup>	d. 5620 cm <sup>3</sup> =	m <sup>3</sup>
e.	364 000 m <sup>3</sup> =	km³	f. $0.6 \text{ m}^3$ =	mm <sup>3</sup>
e.	0.26 km <sup>3</sup> =	m <sup>3</sup>	f. 7.8 mm <sup>3</sup> =	cm <sup>3</sup>

- A bottle of coke contains 2 litres. Jeevan pours 300 cm<sup>3</sup> into a cup.
   How much coke is left in the bottle in cubic centimetres?
- 4. A cuboid water tank is 4 metres tall, 4 metres long and 3 metres wide.
- a. What is the volume of the tank in cubic metres?
- b. How many litres of water will the tank hold?
- 5. A house has a loft of width 700 centimetres and length 1 100 centimetres.
  Loft insulation costs £3 per square metre.
  How much will it cost to cover the entire loft with insulation?
- 6. A swimming pool contains 375 000 litres of water. It has a base of 25 metres by 10 metres and is the same depth all over.

How deep is the pool?

