## Converting metric units of area and volume

1. Fill in the gaps to convert the following measurements of area:
a. $1 \mathrm{~cm}^{2}=100 \mathrm{~mm}^{2}$
b. $3.5 \mathrm{~cm}^{2}=350 \mathrm{~mm}^{2}$
c. $7 \mathrm{~m}^{2}=70000 \mathrm{~cm}^{2}$
d. $27 \mathrm{~mm}^{2}=2700 \mathrm{~cm}^{2}$
e. $143 \mathrm{~cm}^{2}=0.0143 \mathrm{~m}^{2}$
f. $34 \mathrm{~cm}^{2}=340000 \mathrm{~mm}^{2}$
g. $3000000 \mathrm{~m}^{2}=3 \mathrm{~km}^{2}$
h. $4.3 \mathrm{~km}^{2}=4300000 \mathrm{~m}^{2}$
i. $3 \mathrm{~m}^{2}=3000000 \mathrm{~mm}^{2}$
2. Fill in the gaps to convert the following measurements of volume:
a. $4 \mathrm{~cm}^{3}=4000 \mathrm{~mm}^{3}$
b. $17.2 \mathrm{~cm}^{3}=17200 \mathrm{~mm}^{3}$
c. $12 \mathrm{~m}^{3}=12000000 \mathrm{~cm}^{3}$
d. $5620 \mathrm{~cm}^{3}=0.00562 \mathrm{~m}^{3}$
e. $364000 \mathrm{~m}^{3}=0.000364 \mathrm{~km}^{3}$
e. $0.26 \mathrm{~km}^{3}=260000000 \mathrm{~m}^{3}$
f. $0.6 \mathrm{~m}^{3}=600000000 \mathrm{~mm}^{3}$
f. $7.8 \mathrm{~mm}^{3}=0.0078 \mathrm{~cm}^{3}$
3. A bottle of coke contains 2 litres. Jeevan pours $300 \mathrm{~cm}^{3}$ into a cup. How much coke is left in the bottle in cubic centimetres? $\quad 1700 \mathrm{~cm}^{3}$
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? $48 \mathrm{~m}^{3}$
b. How many litres of water will the tank hold? 48000 litres
5. A house has a loft of width 700 centimetres and length 1100 centimetres.

Loft insulation costs $£ 3$ per square metre.
How much will it cost to cover the entire loft with insulation? £231
6. A swimming pool contains 375000 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? 1.5 m

