

Data & Measurement With Classified answer book



© 01007044107

111 f(x)

2- Converting Metric Units — Area and Volume

- 1 Convert each of these measurements into the units given.
 - a) 84 mm2 into cm2

b) 1750 cm2 into m2

- **d)** 0.001 km3 into m3
- e) 15 cm3 into mm3
- g) 3 150 000 m2 into km2
- h) 8500 mm2 into cm2

- j) 0.435 km3 into m3
- **k)** 6.7 km3 into m3
- c) 29 000 mm² into cm2
- f) 0.2 m3 into cm3
- i) 1700 cm2 into m2
- 0.000045 cm3 into mm3
- 2 Sandeesh wants to carpet two rectangular rooms.

One of the rooms measures 1.7 m by 3 m, while the other is 670 cm by 420 cm.

How many square metres of carpet will she need?

- ${\bf 3}$ A 1 litre bottle of squash says to dilute 25 cm $^{\bf 3}$ of squash with 0.5 litres of water to make one glass.
 - a) How many glasses of squash can you get from this bottle?
 - b) What is the total volume of one glass of squash in cm³?

- 4 A swimming pool measures 3 m deep and has a base with area 375 m^2 .
 - a) Find the volume of the pool in cm³.
 - b) How many litres of water can the pool hold?
- **5** A brand of coffee powder is sold in cuboid packets with dimensions 20.7 cm by 25.5 cm by 10 cm.
 - a) A volume of 0.003 m³ of coffee powder has already been used. What volume (in m³) of coffee powder is left?



b) Find the total surface area of the packet of coffee powder. Give your answer in mm².

- 6 Convert each of these measurements into the units given.
 - a) $1.2 \text{ m}^2 \text{ into mm}^2$
 - **b)** 673 000 000 cm² into km²
 - c) 3 million mm³ into km³
 - d) 17 440 mm³ into m³
 - e) 50 million mm² into m²
 - f) 60 500 mm² into m²
 - g) 999 cm³ into km³
 - **h)** $0.00345 \, \text{km}^3 \text{ into mm}^3$
 - i) 0.001 km² into cm²
 - f) 0.000005 km² into mm²
 - **h)** 0.0006 m³ into mm³
 - i) $19 \text{ cm}^3 \text{ into m}^3$

b)
$$0.36 \text{ m}^3 = \dots \text{cm}^3$$

8 Write down four pairs of equal areas.

A	В	C	С
6000 mr	n ² 60 000 cm ²	6 mm ²	6 mm²
mora man	F	G	G
6 m ²	0.6 m ²	0.06 cm^2	0.06 cm ²

..... and and and and and

9 Write the correct sign (<, = or >) between each pair of measurements.