

Problems in Metric Units

- 1) (a) Convert 3.4m into centimetres
(b) Convert 3.4 m^2 into cm^2
(c) Convert 3.4m^3 into cm^3
- 2) (a) Convert 47cm into metres
(b) Convert 47cm^2 into m^2
(c) Convert 47cm^3 into m^3
- 3) An urn holds 5.2 litres of tea. How many teacups each holding 160ml can be filled from the urn?
- 4) A watch weighs 175g. What is the weight (in kg) of a box containing 50 watches, if the box and packing weighs 2.5kg?
- 5) A sheet of plastic is 8mm thick. How many sheets can be stacked in a box with a depth of 1.2 metres?
- 6) If 1 litre of oil weighs 2.4kg, what is the weight of oil in a fuel tank with a volume of 25m^3 . Give your answer in tonnes.
- 7) (a) What is the volume (in cm^3) of a plank of wood measuring 8.5cm by 8mm by 1.3m?
(b) What is the area (in hectares) of a rectangular field measuring 1.2km by 640m?
- 8) If one bale of hay weighs 30kg, how many bales can be made from 10.5 tonnes of hay?
- 9) If it takes 800g of grass seed to seed 1m^2 of lawn, how many kilograms of seed are required for a lawn 16.5m by 9m?
- 10) 25 rectangles each measuring 30cm by 15cm are cut from a sheet of card 1.4m by 1.1m. What area of card is not used: (a) in cm^2 , and (b) in m^2
- 11) How many litres of water will be needed to fill a tank measuring 4.2m by 3m by 80cm?
- 12) If 1 litre of fertiliser will treat an area of 25m^2 , how many litres will be needed for a field with an area of 40 hectares?
- 13) If 1m^3 of hay weighs 200kg, how many bales measuring 80cm by 50cm by 40cm will be made from 5 tonnes of hay?
- 14) 10 litres is approximately 2.2 gallons, and 8km is approximately 5 miles. If a car travels 386km on 40 litres of petrol, find the car's petrol consumption in miles per gallon (ie how many miles it travels on 1 gallon of petrol).

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