

## Worded Questions.

- 1). A block of ice weighs 2208 g and has a volume of  $2400 \text{ cm}^3$ . Find the density of the ice.
- 2). A piece of Stilton cheese has a density of  $2 \text{ g/cm}^3$ . It has a volume of  $420 \text{ cm}^3$ .  
What is the mass of the cheese ?
- 3). A stone weighs 440 kg. The density of the stone is  $2200 \text{ kg/m}^3$ .  
What is the volume of the stone ?
- 4). Magnesium has a density of  $174 \text{ kg/m}^3$ . A bar of magnesium has a volume of  $1.2 \text{ m}^3$ .  
What is the mass of the bar of magnesium ?
- 5). A gold chunk has a volume of  $2.5 \text{ cm}^3$  and a mass of 48.5 g. What is the density of gold ?
- 6). Steel has a density of  $7700 \text{ kg/m}^3$ . A girder made out of steel weighs 26180 kg.  
What is the volume of the steel girder ?
- 7). Lead has a density of  $11.5 \text{ g/cm}^3$ . A rectangular block of lead measures  $7 \text{ cm} \times 5 \text{ cm} \times 2 \text{ cm}$ .
  - a). Find the volume of the block of lead.
  - b). Find the mass of the block of lead.
- 8). A plywood plank measures  $1 \text{ cm} \times 8 \text{ cm} \times 90 \text{ cm}$  and weighs 396 g.
  - a). Find the volume of the plywood plank.
  - b). Find the density of plywood.
- 9). The petrol in a petrol can weighs 2000 g. The density of petrol is  $0.8 \text{ g/cm}^3$ .  
What is the volume of petrol in the petrol can
  - a). in  $\text{cm}^3$ ,
  - b). in litres ?
- 10). A **cube** of balsa wood has edges of length 12 cm. It weighs 345.6 g.
  - a). Find the volume of the balsa wood cube.
  - b). Find the density of balsa wood.
- 11). A marble slab is 1 **metre** long and has a rectangular cross section of area  $15 \text{ cm}^2$ .
  - a). What is the volume of the marble slab ?
  - b). The density of marble is  $2.7 \text{ g/cm}^3$ , what is the mass of the marble slab ?
- 12). Copper is cast in a rectangular block of dimensions  $10 \text{ cm} \times 8 \text{ cm} \times 5 \text{ cm}$ .  
The density of copper is  $8.9 \text{ g/cm}^3$ .
  - a). Find the volume of the copper.
  - b). Find the mass of the copper.