## Revision Questions on Density

- An object has a mass of 100 grams and a volume of 20 cubic centimetres. What is its density?
- 2) An object has a mass of 40 000 kilograms and a volume of 5 cubic metres. What is its density?
- An object has a volume of 3 cubic metres and a density of 6000 kilograms per cubic metre. What is its mass?
- 4) Copy and complete this table.

Object	Density (kg/m³)	Mass (kg)	Volume (m³)
Α		4000	2
В	8000		4
C	2000	1000	
D		2000	4

- a) Which object has the greatest mass?
- b) Which has the smallest volume?
- c) Which objects could be made of the same substance?
- d) Which object would float on water?
- A water tank measures  $2 \text{ m} \times 4 \text{ m} \times 5 \text{ m}$ . What mass of water will it contain?
- An object has a mass of 20 000 kilograms and a density of 4000 kilograms per cubic metre. What is its volume?
- 7) The density of air is  $1.3 \, \text{kg/m}^3$ . What mass of air is contained in a room measuring  $2.5 \, \text{m} \times 4 \, \text{m} \times 10 \, \text{m}$ ? How does this compare with your mass?
- 8) Describe, in detail, with diagrams, how you would find the density of a rock.