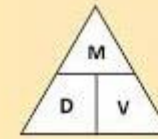


Density

Mass Density Volume



$$\text{Volume} = \frac{\text{Mass}}{\text{Density}}$$

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$\text{Mass} = \text{Density} \times \text{Volume}$$



- 1) Mass = 50g
Volume = 5 cm³
Density = ? g/cm³
- 2) Mass = 30 g
Density = 6 g/cm³
Volume = ? cm³
- 3) Volume = 4 cm³
Density = 8 g/cm³
Mass = ? g
- 4) Mass = 4 g
Density = 8 g/cm³
Volume = ? cm³
- 5) Mass = 8g
Volume = 0.2 cm³
Density = ? g/cm³
- 6) Volume = 45 cm³
Density = 9 g/cm³
Mass = ? g



- 1) Mass = 4 kg
Volume = 80 cm³
Density = ? g/cm³
- 2) Mass = 2 kg
Density = 5 g/cm³
Volume = ? cm³
- 3) Volume = 4 m³
Density = 0.02 g/cm³
Mass = ? kg
- 4) Mass = 120 kg
Density = 25 g/cm³
Volume = ? m³
- 5) Mass = 8 kg
Volume = 0.2 m³
Density = ? g/cm³
- 6) Volume = 1.5 m³
Density = 600 g/cm³
Mass = ? kg



- 1) A cube with side length 8 cm has a mass of 4.096 kg. Calculate the density (g/cm³)
- 2) A cylinder with radius 4 and height 2.5 cm is made from a material with density 15g/cm³. Calculate the mass of the cylinder to the nearest g
- 3) 20g of Metal A is mixed with 50g of Metal B to form an alloy. Metal A has density 10g/cm³ and Metal B has density 20 g/cm³. Calculate the density of the resulting alloy. (g/cm³ correct to 2 d.p)
- 4) A sphere has a mass of 450g has density 9 g/cm³. Calculate the radius of the sphere (cm correct to 2 d.p.)