

Solutions

Each answer shows the steps, then the **result**.

2.1

- $\rho = \frac{m}{V} = \frac{240}{30} = 8.0 \text{ g cm}^{-3}$

2.2

- a gas

2.3

- $m = \rho V = 800 \times 2.0 = 1600 \text{ kg}$

3.1 B

3.2 C

3.3

(a)

- $V = (0.10)^3 = 1.0 \times 10^{-3} \text{ m}^3$

(b)

- $\rho = \frac{2.7}{1.0 \times 10^{-3}} = 2700 \text{ kg m}^{-3}$