

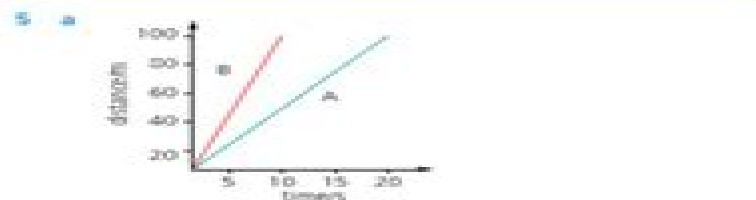
Answers to exam-style questions

Topic 1

All numerical answers are quoted to 2 s.f.

- 1 Thickness of sheet = $7 \text{ mm}/160 = 0.044 \text{ mm}$
 $= 4.4 \times 10^{-5} \text{ m}$ [1]
 2 a systematic or zero error [1]
 b 9 swings [1]
 c time = $5.9 - 0.5 = 5.4 \text{ s}$ [1]
 d time for 1 swing = $5.4/9 = 0.60 \text{ s}$ [1]

- 3 Scalars: mass, kinetic energy, time [3]
 Vectors: velocity, weight, acceleration [3]
 4 Resultant velocity = $\sqrt{17^2 + 4^2} = 17.5 \text{ m/s}$ [1]
 $\tan \theta = 4$, $\theta = 78^\circ$ north of due east [1]



- b average speed
 $= \frac{\text{total distance travelled}}{\text{total time taken}} = \frac{100}{20} = 5 \text{ m/s}$ [2]

- c Line B as shown in image [2]
 6 a Speed in m/s on y-axis [1] time in s on x-axis [1]
 line plotted as shown below [1]



- b Distance travelled = area under the graph [1]
 $= 210 \text{ m}$ [1]
 c Average speed = $\frac{\text{total distance}}{\text{total time}} = \frac{210}{20}$
 $= 11 \text{ m/s}$ to 2 s.f. [10.5 m/s exactly] [2]

- d $a = \frac{\Delta v}{\Delta t} = \frac{15}{12} = 1.3 \text{ m/s}^2$ to 2 s.f. [1.25 m/s² exactly] [2]

- 7 a $9.8 = \frac{8820}{m}$ [1]
 $m = 900 \text{ kg}$ [1]

- b $g = \frac{3330}{900} = 3.7 \text{ N/kg}$ [1]

- 8 a Answers in *italics*

Substance	Mass/g	Volume/cm ³	Density/g/cm ³
A	540	200	$= 540/200$ $= 2.7$ [1]
B	47.5	$= 47.5/1.5$ $= 45$ [1]	1.5
C	$= 250 \times 0.5$ $= 125$ [1]	250	0.5

- b C only [1]

- 9 a $V = 140 - 20 = 120 \text{ cm}^3$ [1], mass = $246 - 150$
 $= 96 \text{ g}$ [1], $\rho = m/V = 0.80 \text{ g/cm}^3$ [1]
 b $V = 200 - 140 = 60 \text{ cm}^3$ [1], mass = $411 - 246$
 $= 165 \text{ g}$ [1], $\rho = m/V = 2.8 \text{ g/cm}^3$ to 2 s.f. [1]
 (2.75 g/cm³ exactly)

- 10 Liquid B floats on liquid A [1]

Either calculate both densities $\rho = m/V$: liquid A $\rho = 1.1 \text{ g/cm}^3$ [1], liquid B $\rho = 0.92 \text{ g/cm}^3$ [1]
 Or state as both liquids have same mass, since B has greater volume [1], it has lower density [1]

- 11 a Graph A shows a directly proportional relationship. [1] This could be a spring. [1]
 Graph B shows a non-linear relationship. [1]
 The load/force required stretching the material changes with extension / Below 5 cm, a large force is needed per unit extension; beyond 5 cm, the force required decreases then begins to increase again. [1]
 Graph C is linear until 20 cm [1] then non-linear [1]
 [Supplemental students – this could be a spring stretched beyond its limit of proportionality.]

- b extension = 0.1 m [1] $k = \frac{F}{x} = \frac{5}{0.2} = 25 \text{ N/m}$ [1]

- c Limit of proportionality occurs at 40 cm. [1]

- 12 a There is no resultant force/resultant force is zero. [1]
 b The resultant force is in the opposite direction to the movement of the car. [1]
 13 a resultant force = $1800 - (980 + 500) = 320 \text{ N}$ [1]
 upwards [1]
 b The rocket will accelerate [1] upwards. [1]

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