

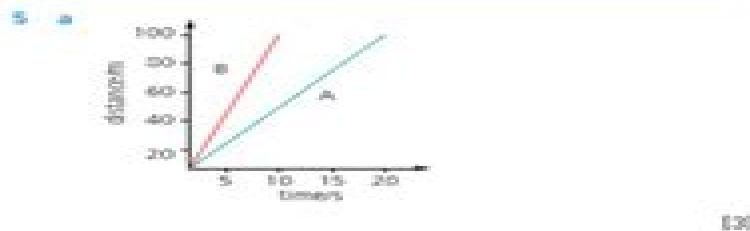
# Answers to exam-style questions

## Topic 1

All numerical answers are quoted to 2 s.f.

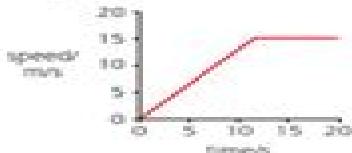
- Thickness of sheet =  $7\text{mm}/160 = 0.044\text{ mm}$   
 $= 4.4 \times 10^{-3}\text{m}$  [1]
- a** systematic or zero error [1]
- b** 9 swings [1]
- c** time =  $5.7 - 0.5 = 5.4\text{s}$  [1]
- d** time for 1 swing =  $5.4/9 = 0.60\text{s}$  [1]

- a** Scalars: mass, kinetic energy, time  
 Vectors: velocity, weight, acceleration [3]
- Resultant velocity =  $\sqrt{17 + 47} = 4.1\text{ m/s}$   
 $\tan \theta = 4$ ,  $\theta = 76^\circ$  north of due east [1]



**c** Line B as shown in image [2]

**d** 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 =  $\frac{\text{total distance}}{\text{total time}} = \frac{210}{20}$   
 $= 11\text{ m/s to 2 s.f.}$  [1] (0.5 m/s exactly). [1]

**d**  $\mu = \frac{\Delta v}{\Delta t} = \frac{15}{12} = 1.3\text{ m/s}^2$  to 2 s.f. [1] (1.25 m/s<sup>2</sup> exactly) [1]

**7** **a**  $9.8 = \frac{8820}{m}$

$m = 900\text{ kg}$

**b**  $g = \frac{8820}{900} = 9.7\text{ N/kg}$

**c** **a** Answers in italics

Substance	Mass/g	Volume/cm <sup>3</sup>	Density/g/cm <sup>3</sup>
A	540	200	$= 540/200$ $= 2.7$ [1]
B	67.5	$= 47.5/1.5$ $= 45$ [1]	1.5
C	$= 250 \times 0.5$ $= 125$ [1]	250	0.5

**b** C only [1]

**c**  $V = 140 - 20 = 120\text{ cm}^3$  [1], mass =  $246 - 150$

$= 96\text{ g}$  [1],  $\rho = m/V = 0.80\text{ g/cm}^3$  [1]

**d**  $V = 200 - 140 = 60\text{ cm}^3$  [1], mass =  $411 - 246$   
 $= 165\text{ g}$  [1],  $\rho = m/V = 2.8\text{ g/cm}^3$  to 2 s.f. [1]  
 $2.75\text{ g/cm}^3$  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.

Graph B shows a non-linear relationship. [1]

The load/force required stretching the material changes with extension. [1] Below 5cm, a large force is needed per unit extension; beyond 5cm, the force required decreases then begins to increase again.

Graph C is linear until 20cm [1] then non-linear [1] (Supplemental students – this could be a spring stretched beyond its limit of proportionality.)

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

**c** resultant force =  $1800 - (980 + 500) = 320\text{ N}$  [1] upwards.

**d** The rocket will accelerate [1] upwards.

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**DP Hallahan**

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