

Question	Answer	Marks	Part marks and guidance	
18	Average speed = $\frac{\text{Distance}}{\text{Time}} = \frac{x}{5} \text{ km/h}$ $= \frac{1000x}{60^2 \times 5} \text{ m/s}$ $= \frac{1000x}{18000} \text{ m/s}$ oe $= \frac{x}{18} \text{ m/s}$	4 2 AO1.3a 2 AO2.2	B1 for $x \text{ km} = 1000xm$ B1 for 5 hours = $60^2 \times 55 \text{ s}$ B1 for working to given answer without intermediate expression or statement of formula	
19	25 with correct working	5 2 AO1.3b 3 AO3.1d	“Correct working” requires evidence of at least M1M1 <u>Alternative method</u> M1 for $10 \times \frac{2}{5} = 4$ litres red or for $10 \times \frac{3}{5} = 6$ litres white M1 for red costs £8 per litre or for white costs £0.50 per litre M1 for cost of one 10-litre can is <i>their</i> $4 \times \text{their } 8 + \text{their } 6 \times \text{their } 0.5$ M1 for $60 - \text{their } 35$ If 0 or 1 scored, instead award SC2 for answer 25 with no working or insufficient working	
20	2.8(0...)	3 1 AO1.1 2 AO1.3a	B1 for $\tan \theta = \frac{\text{opp}}{\text{adj}}$ M1 for $4 \times \tan 35$	