Question	Answer	Marks	Guidance
1 a	Total distance travelled = 4.5 + 4.5 = 9.0 km	C1	Cyclist rides away from home for 4.5 km, stops, and then returns.
	Convert units: $9 \times 1000 = 9000$ m		
	$60 \times 60 = 3600$ s	C1	Students must convert the distance to metres and the time to seconds.
	Average speed = $\dfrac{9 \times 1000}{60 \times 60} = 2.5$ m s^{-1}	A1	An answer in km min^{-1} would lose a mark.
1 b	Average velocity = change in displacement divided by the time taken.		Since the cyclist returns home the change in displacement is zero.
	Average velocity = 0 m s^{-1}	B1	
	Displacement is a vector quantity whereas distance travelled is a scalar, and depends on the route taken between the start and finish.	B1	This is an important distinction and should be carefully noted.
1 c	Horizontal sections from $t = 0$ to $t = 10$ min		Gradient is the velocity so for first 10 min
	and from $t = 15$ to $t = 20$ min with value 5.0 m s^{-1}	B1	$v = \dfrac{3000}{10 \times 60} = 5$ m s^{-1}
	Horizontal sections from $t = 10$ to $t = 15$ min		
	and from $t = 20$ to $t = 30$ min with value 0.0 m s^{-1}	B1	$v = 0$ m s^{-1} for next 5 min before cyclist continues journey with the same velocity as before. After another stop the cyclist turns round and cycles in the opposite direction so velocity is negative and gradient is then −2.5 m s^{-1}. Note the negative sign.
	Horizontal section from $t = 30$ to $t = 60$ min		
	and with value −2.5 m s^{-1}	B1	
2 a	From $t = 0$ s to $t = 12$ s the car is accelerating uniformly.	B1	It is important to note that acceleration is constant.
	Acceleration = 1.83 m s^{-1}	B1	
	From $t = 12$ s to $t = 20$ s the car is travelling at a constant velocity of 22 m s^{-1}	B1	Since numerical values are provided on the graph numerical values must be included for this mark.
2 b	Distance travelled = area under graph	C1	Since direction of motion is unchanged, distance travelled and displacement have the same magnitude. The correct answer can also be found by adding the area of the triangle and the rectangle rather than using the area of the trapezium.
	Distance = $\dfrac{1}{2} \times 22 \times (20 + 8) = 308$ m	A1	
2 c	Speed = $\dfrac{308}{20} = 15.4$ m s^{-1}	A1	

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1

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