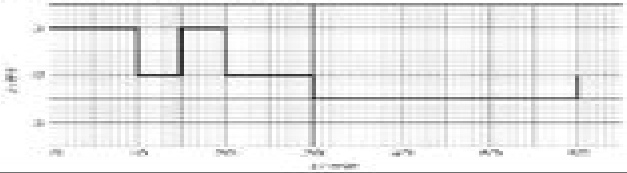
Question	Answer	Marks	Guidance
1 a	Total distance travelled = 4.5 + 4.5 = 9.0 km Convert units: 9 × 1000 = 9000 m 60 × 60 = 3600 s Average speed = $\frac{9 \times 1000}{60 \times 60} = 2.5\ \text{m s}^{-1}$	C1 C1 A1	Cyclist rides away from home for 4.5 km, stops, and then returns. Students must convert the distance to metres and the time to seconds. An answer in km min^{-1} would lose a mark.
1 b	Average velocity = change in displacement divided by the time taken. Average velocity = 0 m s^{-1} Displacement is a vector quantity whereas distance travelled is a scalar, and depends on the route taken between the start and finish.	B1 B1	Since the cyclist returns home the change in displacement is zero. This is an important distinction and should be carefully noted.
1 c	Horizontal sections from t = 0 to t = 10 min **and** from t = 15 to t = 20 min with value 5.0 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} Horizontal section from t = 30 to t = 60 min **and** with value −2.5 m s^{-1} 	B1 B1 B1	Gradient is the velocity so for first 10 min $v = \frac{3000}{10 \times 60} = 5\ \text{m s}^{-1}$ 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.
2 a	From t = 0 s to t = 12 s the car is accelerating uniformly. Acceleration = 1.83 m s^{-2} From t = 12 s to t = 20 s the car is travelling at a constant velocity of 22 m s^{-1}	B1 B1 B1	It is important to note that acceleration is constant. Since numerical values are provided on the graph numerical values must be included for this mark.
2 b	Distance travelled = area under graph Distance = $\frac{1}{2} \times 22 \times (20 + 8) = 308$ m	C1 A1	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.
2 c	Speed = $\frac{308}{20} = 15.4\ \text{m s}^{-1}$	A1	

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Rachel Sandford

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