

Question	Answer	Marks	Guidance
1 a	Total distance travelled = $4.5 + 4.5 = 9.0$ km Convert units: $9 \times 1000 = 9000$ m $60 \times 60 = 3600$ 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 $v = \frac{3000}{10 \times 60} = 5 \text{ m s}^{-1}$ $v = 0 \text{ m s}^{-1}$ 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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D. A. Quadling



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1. Understanding the eBook Mechanics 1 Ocr January 2013 Mark Scheme
 - The Rise of Digital Reading Mechanics 1 Ocr January 2013 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics 1 Ocr January 2013 Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics 1 Ocr January 2013 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics 1 Ocr January 2013 Mark Scheme
 - Personalized Recommendations
 - Mechanics 1 Ocr January 2013 Mark Scheme User Reviews and Ratings
 - Mechanics 1 Ocr January 2013 Mark Scheme and Bestseller Lists

5. Accessing Mechanics 1 Ocr January 2013 Mark Scheme Free and Paid eBooks
 - Mechanics 1 Ocr January 2013 Mark Scheme Public Domain eBooks
 - Mechanics 1 Ocr January 2013 Mark Scheme eBook Subscription Services
 - Mechanics 1 Ocr January 2013 Mark Scheme Budget-Friendly Options
6. Navigating Mechanics 1 Ocr January 2013 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics 1 Ocr January 2013 Mark Scheme Compatibility with Devices
 - Mechanics 1 Ocr January 2013 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics 1 Ocr January 2013 Mark Scheme
 - Highlighting and Note-Taking Mechanics 1 Ocr January 2013 Mark Scheme
 - Interactive Elements Mechanics 1 Ocr January 2013 Mark Scheme
8. Staying Engaged with Mechanics 1 Ocr January 2013 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics 1 Ocr January 2013 Mark Scheme
9. Balancing eBooks and Physical Books Mechanics 1 Ocr January 2013 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics 1 Ocr January 2013 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics 1 Ocr January 2013 Mark Scheme
 - Setting Reading Goals Mechanics 1 Ocr January 2013 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics 1 Ocr January 2013 Mark Scheme
 - Fact-Checking eBook Content of Mechanics 1 Ocr January 2013 Mark Scheme
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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