

Question	Answer	Marks	Guidance
1 a	Total distance travelled = 4.5 + 4.5 = 9.0 km Convert units: $9 \times 1000 = 9000 \text{ m}$ $60 \times 60 = 3600 \text{ s}$ 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 $t = 10 \text{ min}$ and from $t = 15$ to $t = 20 \text{ min}$ with value 5.0 m s^{-1} Horizontal sections from $t = 10$ to $t = 15 \text{ min}$ and from $t = 20$ to $t = 30 \text{ min}$ with value 0.0 m s^{-1} Horizontal section from $t = 30$ to $t = 60 \text{ min}$ 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 $t = 0 \text{ s}$ to $t = 12 \text{ s}$ the car is accelerating uniformly. Acceleration = 1.83 m s^{-2} From $t = 12 \text{ s}$ to $t = 20 \text{ s}$ 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 = $\frac{1}{2} \times 22 \times (20 + 8) = 308 \text{ m}$	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	

Mark Scheme M14 Physics

Joacim Rocklöv



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Table of Contents Mark Scheme M14 Physics

1. Understanding the eBook Mark Scheme M14 Physics
 - The Rise of Digital Reading Mark Scheme M14 Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Mark Scheme M14 Physics
 - 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 Mark Scheme M14 Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mark Scheme M14 Physics

- Personalized Recommendations
 - Mark Scheme M14 Physics User Reviews and Ratings
 - Mark Scheme M14 Physics and Bestseller Lists
5. Accessing Mark Scheme M14 Physics Free and Paid eBooks
 - Mark Scheme M14 Physics Public Domain eBooks
 - Mark Scheme M14 Physics eBook Subscription Services
 - Mark Scheme M14 Physics Budget-Friendly Options
 6. Navigating Mark Scheme M14 Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Mark Scheme M14 Physics Compatibility with Devices
 - Mark Scheme M14 Physics Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mark Scheme M14 Physics
 - Highlighting and Note-Taking Mark Scheme M14 Physics
 - Interactive Elements Mark Scheme M14 Physics
 8. Staying Engaged with Mark Scheme M14 Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mark Scheme M14 Physics
 9. Balancing eBooks and Physical Books Mark Scheme M14 Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mark Scheme M14 Physics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mark Scheme M14 Physics
 - Setting Reading Goals Mark Scheme M14 Physics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mark Scheme M14 Physics

- Fact-Checking eBook Content of Mark Scheme M14 Physics
 - 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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