

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 $\text{km min}^{-1}$ would lose a mark.
1 b	Average velocity = change in displacement divided by the time taken.  Average velocity = $0 \text{ m s}^{-1}$  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 $5.0 \text{ m s}^{-1}$ Horizontal sections from $t = 10$ to $t = 15$ min and from $t = 20$ to $t = 30$ min with value $0.0 \text{ m s}^{-1}$ Horizontal section from $t = 30$ to $t = 60$ min and with value $-2.5 \text{ m s}^{-1}$  	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 $-2.5 \text{ m s}^{-1}$ . Note the negative sign.
2 a	From $t = 0$ s to $t = 12$ s the car is accelerating uniformly. Acceleration = $1.83 \text{ m s}^{-2}$  From $t = 12$ s to $t = 20$ s the car is travelling at a constant velocity of $22 \text{ m s}^{-1}$	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	

# Mechanics Ocr January 2013 Mark Scheme

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**Mechanics Ocr January 2013 Mark Scheme:**

This book delves into Mechanics Ocr January 2013 Mark Scheme. Mechanics Ocr January 2013 Mark Scheme is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mechanics Ocr January 2013 Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mechanics Ocr January 2013 Mark Scheme
- Chapter 2: Essential Elements of Mechanics Ocr January 2013 Mark Scheme
- Chapter 3: Mechanics Ocr January 2013 Mark Scheme in Everyday Life
- Chapter 4: Mechanics Ocr January 2013 Mark Scheme in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Mechanics Ocr January 2013 Mark Scheme. The first chapter will explore what Mechanics Ocr January 2013 Mark Scheme is, why Mechanics Ocr January 2013 Mark Scheme is vital, and how to effectively learn about Mechanics Ocr January 2013 Mark Scheme.
3. In chapter 2, the author will delve into the foundational concepts of Mechanics Ocr January 2013 Mark Scheme. The second chapter will elucidate the essential principles that must be understood to grasp Mechanics Ocr January 2013 Mark Scheme in its entirety.
4. In chapter 3, the author will examine the practical applications of Mechanics Ocr January 2013 Mark Scheme in daily life. This chapter will showcase real-world examples of how Mechanics Ocr January 2013 Mark Scheme can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Mechanics Ocr January 2013 Mark Scheme in specific contexts. This chapter will explore how Mechanics Ocr January 2013 Mark Scheme is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Mechanics Ocr January 2013 Mark Scheme. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanics Ocr January 2013 Mark Scheme.

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