



Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

> Coursebook answers

Chapter 1

Exam-style questions

1 **A** [1]

2 **C** [1]

3 **a** distance = speed $\times$ time
 $= \frac{120 \times 2.0}{60}$ [1]
 $= 4.0 \text{ km}$ [1]

b The car's direction of motion keeps changing. Hence, its velocity keeps changing. In the course of one lap, its displacement is zero, so its average velocity is zero. [1]

c distance travelled in 1 minute =
 $0.5 \times \text{circumference}$ but, displacement =
 diameter of track [1]
 $= \frac{\text{circumference}}{\pi}$
 $= \frac{4000 \text{ m}}{\pi} = 1270 \text{ m}$ [1]

4 **a** By Pythagoras' theorem, distance²
 $= 600^2 + 800^2 \text{ m}^2$ [1]
 $= \sqrt{1000000} = 1000 \text{ m}$ [1]

b angle at B = $\tan^{-1} \left(\frac{600}{800} \right)$ [1]
 displacement = 1000 m at an angle 53° W
 of N or a bearing of 307° [1]

c velocity = $\frac{1000}{60}$ [1]
 $= 16.7 \text{ m s}^{-1}$ [1]
 at an angle 53° W of N [1]

5 **a** distance in car = $0.25 \times 60 = 15 \text{ km}$ [1]
 total distance = $2.2 + 15 = 17.2 \text{ km}$ [1]

b By Pythagoras' theorem, displacement =
 $\sqrt{2.2^2 + 15^2}$ [1]
 $= 15.200 \text{ m}$ [1]
 at an angle = $\tan^{-1} \left(\frac{2.2}{15} \right)$ [1]
 $= 8^\circ \text{ E of N}$ or a bearing of 008° [1]

c time for 2.2 km at $2.0 \text{ m s}^{-1} = \frac{2200}{2}$ [1]
 $= 1100 \text{ s}$ [1]
 total time = $1100 + 900 = 2000 \text{ s}$ [1]

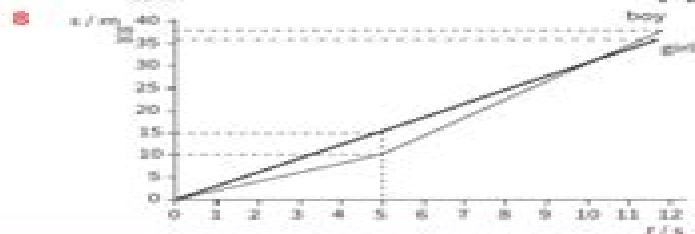
d average speed = $\frac{\text{distance}}{\text{time}}$ [1]
 $= \frac{17200}{2000}$ [1]
 $= 8.6 \text{ m s}^{-1}$ [1]

e average velocity = $\frac{\text{displacement}}{\text{time}}$ [1]
 $= \frac{15200}{2000}$ [1]
 $= 7.6 \text{ m s}^{-1}$ [1]

6 resultant velocity = $\sqrt{1.0^2 + 2.40^2}$ [1]
 $= 2.6 \text{ m s}^{-1}$ [1]
 at an angle of $\tan^{-1} \left(\frac{1.0}{2.4} \right)$ [1]
 $= 23^\circ \text{ E of N}$ or a bearing of 023° [1]

7 **a** Distance in a (particular) direction [1]

b When athlete returns to his original position or the start [1]
 (direct) distance from original position [1]
 zero [1]



Aqa A2 Physics Exam Style Questions Answers Chapter 7

R Bogdan



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Table of Contents Aqa A2 Physics Exam Style Questions Answers Chapter 7

1. Understanding the eBook Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - The Rise of Digital Reading Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - 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 Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Personalized Recommendations
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 User Reviews and Ratings
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 and Bestseller Lists
5. Accessing Aqa A2 Physics Exam Style Questions Answers Chapter 7 Free and Paid eBooks
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 Public Domain eBooks
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 eBook Subscription Services
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 Budget-Friendly Options
6. Navigating Aqa A2 Physics Exam Style Questions Answers Chapter 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 Compatibility with Devices
 - Aqa A2 Physics Exam Style Questions Answers Chapter 7 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Highlighting and Note-Taking Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Interactive Elements Aqa A2 Physics Exam Style Questions Answers Chapter 7
8. Staying Engaged with Aqa A2 Physics Exam Style Questions Answers Chapter 7

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Aqa A2 Physics Exam Style Questions Answers Chapter 7
- 9. Balancing eBooks and Physical Books Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa A2 Physics Exam Style Questions Answers Chapter 7
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Setting Reading Goals Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - Fact-Checking eBook Content of Aqa A2 Physics Exam Style Questions Answers Chapter 7
 - 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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