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

# > Coursebook answers

191

[3]

121

## Chapter 1

#### Exam-style questions

- 1 A
- 3 a distance speed × time  $= \frac{120 \times 2.0}{60}$ [1]
  - = 4.0 km
  - 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.
  - distance travelled in 1 minute = 0.5 × circumference but, displacement = diameter of track circumference
    [1]
    - $-\frac{\pi}{4000 \, \text{m}} = 1270 \, \text{m}$  [1]
- 4 a By Pythagoras' theorem, distance' = 600° + 800° m² [1] = √1000000 = 1000 m [1]
  - b angle at B = tan<sup>-1</sup> (see ) [1] displacement = 1000 m at an angle 53° W of N or a bearing of 307° [3]
  - e velocity = 1000 = 16.7 m s<sup>-1</sup> [1] at an angle 53° W of N [1]
- 5 a distance in car = 0.25 × 60 = 15 km [1] total distance = 2.2 + 15 = 17.2 km [1]

- b By Pythagoras' theorem, displacement =  $\sqrt{2.2^2 + 15^2}$ 
  - = 15 200 m [1] at an angle = tan<sup>-1</sup> (<sup>2,3</sup>/<sub>13</sub>) [1] = 8° E of N or a bearing of 008° [1]
- time for 2.2 km at 2.0 m s = 2200 = 1100 s [1] total time = 1100 + 900 = 2000 s [1]
- d average speed = finance = 17200 = 2000 [11] = 8.6 m s \* [11]
- e average velocity = theptacement time
  = 15200
  2000 [1]
- 6 resultant velocity =  $\sqrt{1.0^3 + 2.40^3}$ = 2.6 m s<sup>-1</sup> [1] at an angle of tan<sup>-1</sup> $\left(\frac{1.0}{2.4}\right)$  [1] = 23° E of N or a bearing of 023° [1]
- Distance in a (particular) direction [1]
   When athlete returns to his original

(direct) distance from original position zero [1]

1111



position or the start

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**RJ Shavelson** 

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- 1. Understanding the eBook Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - o The Rise of Digital Reading Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - 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 1
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Aqa A2 Physics Exam Style Questions Answers Chapter 1

- Personalized Recommendations
- Aga A2 Physics Exam Style Questions Answers Chapter 1 User Reviews and Ratings
- Aga A2 Physics Exam Style Questions Answers Chapter 1 and Bestseller Lists
- 5. Accessing Aga A2 Physics Exam Style Questions Answers Chapter 1 Free and Paid eBooks
  - Aga A2 Physics Exam Style Questions Answers Chapter 1 Public Domain eBooks
  - Aga A2 Physics Exam Style Questions Answers Chapter 1 eBook Subscription Services
  - Aga A2 Physics Exam Style Questions Answers Chapter 1 Budget-Friendly Options
- 6. Navigating Aqa A2 Physics Exam Style Questions Answers Chapter 1 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Aga A2 Physics Exam Style Questions Answers Chapter 1 Compatibility with Devices
  - Aga A2 Physics Exam Style Questions Answers Chapter 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aga A2 Physics Exam Style Questions Answers Chapter 1
  - Highlighting and Note-Taking Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - Interactive Elements Aga A2 Physics Exam Style Questions Answers Chapter 1
- 8. Staying Engaged with Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aga A2 Physics Exam Style Questions Answers Chapter 1
- 9. Balancing eBooks and Physical Books Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Aqa A2 Physics Exam Style Questions Answers Chapter 1
- 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 1
  - Setting Reading Goals Aqa A2 Physics Exam Style Questions Answers Chapter 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aga A2 Physics Exam Style Questions Answers Chapter 1

- Fact-Checking eBook Content of Aga A2 Physics Exam Style Questions Answers Chapter 1
- 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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