

> Coursebook answers

Chapter 1

Exam-style questions

1. **A** [1]
2. **C** [1]
3. **a** distance = speed $\times$ time

$$= \frac{120 \times 2.4}{60}$$
 [1]
 $= 4.8 \text{ km}$ [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]

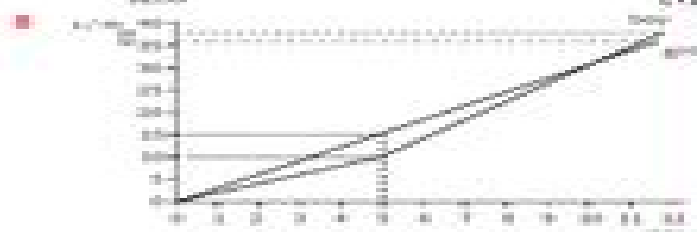
c distance travelled in 1 minute = 0.5 $\times$ circumference then, displacement = diameter of track
 $= \frac{\text{circumference}}{2}$
 $= \frac{6000\pi}{2} = 3270 \text{ m}$ [1]
4. **a** By Pythagoras' theorem, distance² = $600^2 + 800^2 \text{ m}^2$ [1]
 $= \sqrt{1000000} = 1000 \text{ m}$ [1]

b angle at B = $\tan^{-1} \left(\frac{600}{800} \right)$ [1]
 displacement = 1000 m, at an angle $37^\circ 48'$ of N or a bearing of 337° [1]

c velocity = $\frac{1000}{10}$ [1]
 $= 100 \text{ m s}^{-1}$ [1]
 at an angle $37^\circ 48'$ of N [1]
5. **a** distance for 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]
 $= 15.200 \text{ km}$ [1]
 at an angle = $\tan^{-1} \left(\frac{2.2}{15} \right)$ [1]
 $= 8^\circ \text{ E of N}$ or a bearing of 352° [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]
- f** resultant velocity = $\sqrt{1.6^2 + 2.40^2}$ [1]
 $= 2.8 \text{ m s}^{-1}$ [1]
 at an angle of $\tan^{-1} \left(\frac{1.6}{2.4} \right)$ [1]
 $= 33^\circ \text{ E of N}$ or a bearing of 333° [1]

7. **a** Distance is a (particular) direction [1]
- b** When athlete returns to his original position, the (net) distance from original position zero [1]



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

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