

# > 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, its average velocity is zero. [1]

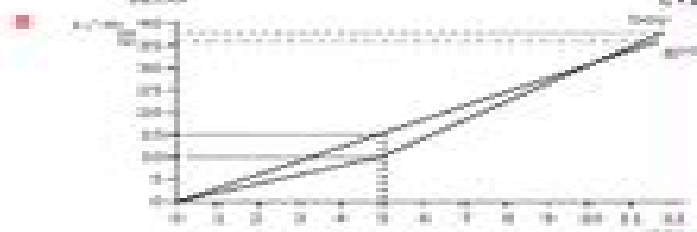
**c** distance travelled in 1 minute = 0.5  $\times$  circumference then, displacement = diameter of track  
 $= \frac{\text{circumference}}{2}$   
 $= \frac{6000\pi}{2} = 3270 \text{ m}$  [1]
4. **a** By Pythagoras' theorem, distance<sup>2</sup> =  $600^2 + 800^2 \text{ m}^2$  [1]  
 $= \sqrt{1000000} = 1000 \text{ m}$  [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  $337^\circ$  [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  $352^\circ$  [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  $333^\circ$  [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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**Mark Steyvers**

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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
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  - Gceguide Ig Physics Budget-Friendly Options
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- Gceguide Ig Physics Enhanced eBook Features
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  - 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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