

# > 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]
 

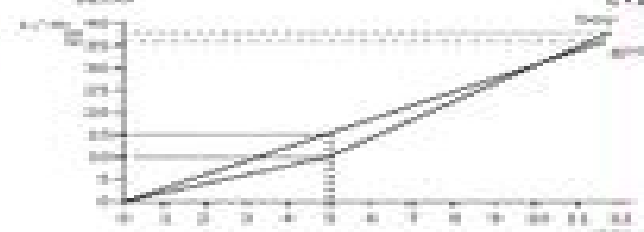
**b** The car's direction of motion keeps changing. Hence, its velocity keeps changing. In the course of one lap, its displacement is zero, so its average velocity is zero. [1]

**c** distance travelled in 1 minute = 0.5  $\times$  circumference then, displacement = diameter of track  
 $= \frac{\text{circumference}}{2}$  [1]  
 $= \frac{4000\pi}{2} = 2000\pi \text{ m}$  [1]
4. **a** By Pythagoras' theorem, distance<sup>2</sup> =  $400^2 + 300^2 \text{ m}^2$  [1]  
 $= \sqrt{250000 + 90000} = 500 \text{ m}$  [1]
 

**b** angle at B =  $\tan^{-1} \left( \frac{300}{400} \right)$  [1]  
 displacement = 500 m, at an angle  $37^\circ$  W of N or a bearing of  $307^\circ$  [1]

**c** velocity =  $\frac{500}{10}$  [1]  
 $= 50.0 \text{ m s}^{-1}$  [1]  
 at an angle  $37^\circ$  W of N [1]
5. **a** distance the 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 =  $\tan^{-1} \left( \frac{15}{2.2} \right)$  [1]  
 $= 81^\circ$  E of N or a bearing of  $009^\circ$  [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 =  $\sqrt{1.6^2 + 2.4^2}$  [1]  
 $= 2.8 \text{ m s}^{-1}$  [1]  
 at an angle of  $\tan^{-1} \left( \frac{1.6}{2.4} \right)$  [1]  
 $= 33^\circ$  E of N or a bearing of  $033^\circ$  [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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**David Kirk**



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