

> 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]

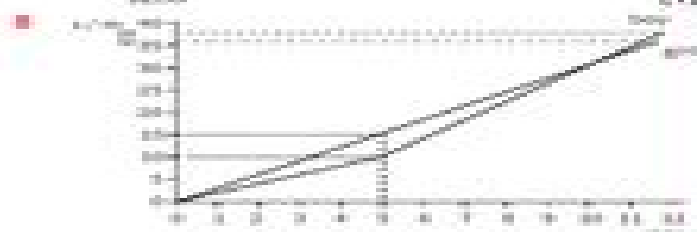
c distance travelled in 1 minute = 0.5 \times circumference then, displacement = diameter of track
 $= \frac{\text{circumference}}{2}$
 $= \frac{6000\pi}{2} = 3270 \text{ m}$ [1]
4. **a** By Pythagoras' theorem, distance² = $600^2 + 800^2 \text{ m}^2$ [1]
 $= \sqrt{1000000} = 1000 \text{ m}$ [1]

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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Mike Folland



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