

> 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]

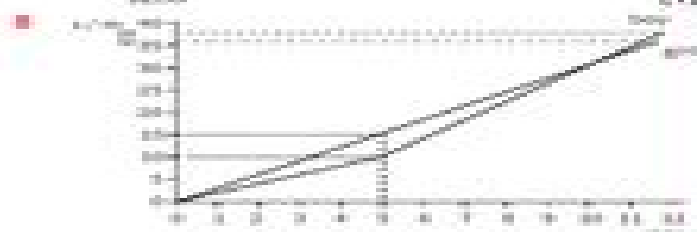
c distance travelled in 1 minute = 0.5 \times circumference then, displacement = diameter of track
 $= \frac{\text{circumference}}{2}$ [1]
 $= \frac{4000\pi}{2} = 2000\pi \text{ m}$ [1]
4. **a** By Pythagoras' theorem, distance² = $400^2 + 300^2 \text{ m}^2$ [1]
 $= \sqrt{250000 + 90000} = 500 \text{ m}$ [1]

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

c velocity = $\frac{500}{10}$ [1]
 $= 50.0 \text{ m s}^{-1}$ [1]
 at an angle 37° W 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 008° [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 033° [1]

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



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