

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

> Coursebook answers

Chapter 1

Exam-style questions

- 1 **A** [1]
- 2 **C** [1]
- 3 **a** distance = speed \times time
 $= \frac{120 \times 2.0}{60}$ [1]
 $= 4.0 \text{ km}$ [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 =
 $0.5 \times \text{circumference}$ but, displacement =
 diameter of track [1]
 $= \frac{\text{circumference}}{\pi}$
 $= \frac{4000 \text{ m}}{\pi} = 1270 \text{ m}$ [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 53° W
 of N or a bearing of 307° [1]
- c** velocity = $\frac{1000}{60}$
 $= 16.7 \text{ m s}^{-1}$ [1]
 at an angle 53° W of N [1]
- 5 **a** distance in 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]
 $= 15.200 \text{ m}$ [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 $2.0 \text{ m s}^{-1} = \frac{2200}{2}$
 $= 1100 \text{ s}$ [1]
 total time = $1100 + 900 = 2000 \text{ s}$ [1]
- d** average speed = $\frac{\text{distance}}{\text{time}}$
 $= \frac{17200}{2000}$ [1]
 $= 8.6 \text{ m s}^{-1}$ [1]
- e** average velocity = $\frac{\text{displacement}}{\text{time}}$
 $= \frac{15200}{2000}$ [1]
 $= 7.6 \text{ m s}^{-1}$ [1]
- 6 resultant velocity = $\sqrt{1.0^2 + 2.40^2}$
 $= 2.6 \text{ m s}^{-1}$ [1]
 at an angle of $\tan^{-1} \left(\frac{1.0}{2.4} \right)$ [1]
 $= 23^\circ \text{ E of N}$ or a bearing of 023° [1]
- 7 **a** Distance in a (particular) direction [1]
- b** When athlete returns to his original position or the start (direct) distance from original position zero [1]
- 8 [1]

Physics Exams Answers

Alvin Halpern



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