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

# > Coursebook answers

191

[3]

121

# Chapter 1

#### Exam-style questions

- 1 A
- 3 a distance speed × time  $= \frac{120 \times 2.0}{60}$ [1]
  - = 4.0 km
  - 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.
  - distance travelled in 1 minute = 0.5 × circumference but, displacement = diameter of track circumference
    [1]
    - $-\frac{\pi}{4000 \, \text{m}} = 1270 \, \text{m}$  [1]
- 4 a By Pythagoras' theorem, distance' = 600° + 800° m² [1] = √1000000 = 1000 m [1]
  - b angle at B = tan<sup>-1</sup> (see ) [1] displacement = 1000 m at an angle 53° W of N or a bearing of 307° [3]
  - e velocity = 1000 = 16.7 m s<sup>-1</sup> [1] at an angle 53° W of N [1]
- 5 a distance in car = 0.25 × 60 = 15 km [1] total distance = 2.2 + 15 = 17.2 km [1]

- b By Pythagoras' theorem, displacement =  $\sqrt{2.2^2 + 15^2}$ 
  - = 15 200 m [1] at an angle = tan<sup>-1</sup> (<sup>2,3</sup>/<sub>13</sub>) [1] = 8° E of N or a bearing of 008° [1]
- time for 2.2 km at 2.0 m s = 2200 = 1100 s [1] total time = 1100 + 900 = 2000 s [1]
- d average speed = finance = 17200 = 2000 [11] = 8.6 m s <sup>-1</sup>
- e average velocity = theptacement time
  = 15200
  2000 [1]
- 6 resultant velocity =  $\sqrt{1.0^3 + 2.40^3}$ = 2.6 m s<sup>-1</sup> [1] at an angle of tan<sup>-1</sup> $\left(\frac{1.0}{2.4}\right)$  [1] = 23° E of N or a bearing of 023° [1]
- Distance in a (particular) direction [1]
   When athlete returns to his original

(direct) distance from original position zero [1]

1111



position or the start

# **Aqa Physics Exam Style Questions Answers Chapter 8**

Jim Breithaupt, Catherine Jones

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