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> Workbook answers

Chapter 1

Exercise 1.1 Speed calculations

- 1 **a** average speed = $\frac{4000}{125} = 32 \text{ m s}^{-1}$
b 0.8%
c 32.3 or 32.26 m s^{-1}
d $0.258 \times 100 / 32 = 0.8\%$
- 2 **a** Speed does not change (steady speed).
b distance = $8100 \times 60 \times 60 = 2.9 \times 10^7 \text{ m}$
c total distance of one orbit = $2 \times \pi \times 6.75 \times 10^6 = 4.24 \times 10^7 \text{ m}$

$$\text{time} = \frac{\text{distance}}{\text{speed}} = \frac{4.24 \times 10^7}{8100} = 5235 \text{ s}$$

$$= 87.3 \text{ minutes}$$
- 3 **a** distance in one minute = $\frac{120}{60} = 2.0 \text{ km}$
b distance in one second = $\frac{2000}{60} = 33.3 \text{ m}$
c average speed = $\frac{3000}{96} = 31.25 \text{ m s}^{-1}$
d Speed limit = 33.3 m s^{-1} ; the car's average speed was less than this so it was not speeding. However, it may have been moving faster than the speed limit at some point during the 3.0 km.
- 4 **a** **i** speed = $300\,000\,000 \text{ m s}^{-1}$
 $= 3.0 \times 10^8 \text{ m s}^{-1}$
ii speed = $11 \text{ km s}^{-1} = 11\,000 \text{ m s}^{-1}$
 $= 1.1 \times 10^4 \text{ m s}^{-1}$
iii speed = $100 / 10.41 = 9.6 \text{ m s}^{-1}$
 (or $9.6 \times 10^0 \text{ m s}^{-1}$)
iv speed = $\frac{5.0 \times 10^{-2}}{0.043 \times 10^{-3}} = 1.16 \times 10^6 \text{ m s}^{-1}$
v speed = $\frac{1.07 \times 10^6}{3600} = 2.97 \times 10^4 \text{ m s}^{-1}$

$$\text{vi speed} = \frac{150\,000}{(1.75 \times 3600)} = 2.38 \times 10^4 \text{ m s}^{-1}$$

- b** [slowest] athlete, truck, spacecraft, Earth, alpha-particle, light [fastest]

Exercise 1.2 Measuring speed in the laboratory

- 1 **a** It is difficult to judge the moment at which the trolley passes the start and stop points; there is a time delay (reaction time) before you press the stop/start control.
b The time is shorter so the error will be a bigger fraction of the measured time.
- 2 **a** When the front edge of the interrupt card passes through the first light gate, it breaks the light beam and the timer starts. When the same edge passes through the second gate, it breaks the beam and the timer stops.
b The time taken by the trolley to travel from one light gate to the other.
c The distance between the light gates; use a ruler/metre rule/tape measure.
d
$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

e The trolley's speed may be changing as it moves between the two light gates, so the value calculated can only be an average.

- 3 **a**


trolley, interrupt card, light gate

b The timer starts as the front edge of the interrupt card passes through the light gate. It stops as the back edge leaves the light gate.
c Measure the length of the interrupt card. Timer shows time for which the beam is broken. Calculate average speed = $\frac{\text{length}}{\text{time}}$

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