

Answers to the Student Book

* Supplement questions are indicated with an asterisk

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Section 1 Motion, forces and energy

1.1 Physical quantities and measurement techniques

Test yourself questions

- 1 a 10 b 40 c 5 d 67 e 1000
- 2 a 3.00 b 5.50 c 8.70 d 0.43 e 0.1
- 3 a 1×10^5 ; 3.5×10^5 ; 4.28×10^6 ; 5.04×10^7 ; 2.7056×10^8
b 1000; 2 000 000; 69 200; 134; 1 000 000 000
- 4 a 1×10^{-3} ; 7×10^{-3} ; 1×10^{-7} ; 5×10^{-5}
b 5×10^{-5} ; 8.4×10^{-2} ; 3.6×10^{-4} ; 1.04×10^{-3}
- 5 Thickness of 100 pages = $100 \times 0.10 \text{ mm} = 10 \text{ mm}$
Thickness of two covers = $2 \times 0.20 \text{ mm} = 0.40 \text{ mm}$
Total thickness of book = $10 \text{ mm} + 0.4 \text{ mm} = 10.4 \text{ mm} = 10 \text{ mm}$ (correct to 2 s.f.)
- 6 a two b three c four d two
- 7 Volume of rectangular block = length $\times$ breadth $\times$ height
= $4.1 \text{ cm} \times 2.8 \text{ cm} \times 2.1 \text{ cm} = 24 \text{ cm}^3$
- 8 Stopwatch; at least 5

Now put this into practice questions

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- 1 Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times 8 \text{ cm} \times 12 \text{ cm} = 48 \text{ cm}^2$
- 2 Circumference $2\pi r = 2\pi \times 6 \text{ cm} = 38 \text{ cm}$

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- 1 Volume $V = \text{length} \times \text{breadth} \times \text{height} = 30 \text{ cm} \times 25 \text{ cm} \times 15 \text{ cm} = 11\,250 \text{ cm}^3$
= $11\,250 \times 10^{-6} \text{ m}^3 = 1.13 \times 10^{-2} \text{ m}^3$
- 2 Volume of cylinder $V = \pi r^2 h = \pi \times (5.0 \text{ cm})^2 \times 25 \text{ cm} = 2000 \text{ cm}^3 = 2 \times 10^{-3} \text{ m}^3$

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- 1 a 10 b 8.6 c 9.2
- 2 a 0.577 b 1.00 c 1.73

Science Fusion Answer Key Motion Forces Energy

L Darling-Hammond



Science Fusion Answer Key Motion Forces Energy:

Whispering the Strategies of Language: An Emotional Journey through **Science Fusion Answer Key Motion Forces Energy**

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