

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

- a** 10 **b** 40 **c** 5 **d** 67 **e** 1000
- a** 3.00 **b** 5.50 **c** 8.70 **d** 0.43 **e** 0.1
- 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
- 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}
- 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.)
- a** two **b** three **c** four **d** two
- Volume of rectangular block = length $\times$ breadth $\times$ height
 = $4.1 \text{ cm} \times 2.8 \text{ cm} \times 2.1 \text{ cm} = 24 \text{ cm}^3$
- Stopwatch; at least 5

Now put this into practice questions

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

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- Volume $V = \text{length} \times \text{breadth} \times \text{height} = 30 \text{ cm} \times 25 \text{ cm} \times 15 \text{ cm} = 11\,250 \text{ cm}^3$
 = $11\,250 \times 10^{-6} \text{ m}^3 = 1.13 \times 10^{-2} \text{ m}^3$
- 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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- a** 10 **b** 8.6 **c** 9.2
- a** 0.577 **b** 1.00 **c** 1.73

Science Fusion Answer Key Motion Forces Energy

Marco Cascella



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