

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 1×10^7 ; 3.5×10^5 ; 4.28×10^7 ; 5.04×10^2 ; 2.7056×10^6
b 1000; 2 000 000; 69 200; 134; 1 000 000 000

4 a 1×10^{-3} ; 7×10^{-3} ; 1×10^{-2} ; 5×10^{-2}
b 5×10^{-1} ; 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

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PT Brinkman

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