

# 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**  $1 \times 10^5$ ;  $3.5 \times 10^5$ ;  $4.28 \times 10^6$ ;  $5.04 \times 10^7$ ;  $2.7056 \times 10^8$   
**b** 1000; 2 000 000; 69 200; 134; 1 000 000 000
- a**  $1 \times 10^{-3}$ ;  $7 \times 10^{-3}$ ;  $1 \times 10^{-7}$ ;  $5 \times 10^{-5}$   
**b**  $5 \times 10^{-5}$ ;  $8.4 \times 10^{-2}$ ;  $3.6 \times 10^{-4}$ ;  $1.04 \times 10^{-3}$
- 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

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**PT Brinkman**



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