

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

# > Coursebook answers

## Chapter 1

### Questions

- 1 a Fill a measuring cylinder with enough water that it will cover the steel block and the block of wood but not overflow. Gently immerse the steel block and record the reading on the measuring cylinder. Raise the steel block and allow any drips of water to fall into the measuring cylinder. Gently place the wooden block into the measuring cylinder. Lower the steel block to immerse both the wooden and metal blocks. Record the new reading on the measuring cylinder. Subtract the smaller reading from the bigger reading to get the volume of the wooden block.
- b  $18 \text{ cm}^3$
- 2 a  $0.1 \text{ mm}$   
b  $3.12 \times 10^3 \text{ cm}^3$
- 3 a  $0.215 \text{ m}$ ,  $0.1025 \text{ m}$ ,  $0.065 \text{ m}$   
b  $1.43 \times 10^{-3} \text{ m}^3$   
c  $1955 \text{ kg/m}^3$
- 4 a  $9.71 \times 10^{-2} \text{ g}$   
b  $0.222 \text{ cm}^3$   
c  $0.44 \text{ g/cm}^3$   
d Density is less than that of water ( $1.0 \text{ g/cm}^3$ ) so it will float.

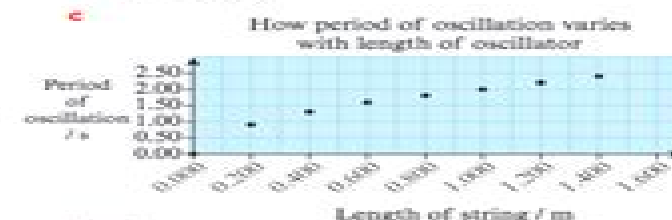
5  $5.5 \times 10^3 \text{ kg/m}^3$

6  $0.05 \text{ cm}^3$

- 7 a  $840 \text{ cm}$   
b  $0.29 \text{ cm}$   
c  $215.4 \text{ cm}^3$   
d  $1.88 \text{ kg}$

- 8 a  $16.7 \text{ ms}$   
b  $2.5$

- 9 a Any random error with starting or stopping the stopwatch would be divided by 20.  
b Values are, reading down the column:  $0.000$ ,  $0.905$ ,  $1.255$ ,  $1.615$ ,  $1.770$ ,  $2.025$ ,  $2.220$ ,  $2.395$



- d  $1 \text{ m}$

# Elements Of Physics 3ed

**TD Snyder**



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