

# IGCSE Physics Workbook

## Answers

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### ● 1 Measurement and motion

#### Core

- 1 a kilogram [1]  
b metre [1]  
c second [1]
- 2 a 20 [1]  
b 4 [1]  
c 120 [1]  
d 500 [1]  
e 1400 [1]
- 3 a 15.00 m [1]  
b 1.50 m [1]  
c 0.15 m [1]  
d 0.015 m [1]
- 4 a  $1 \times 10^2$  [1]  
b  $2.25 \times 10^2$  [1]  
c  $6.5 \times 10^2$  [1]  
d  $1.5 \times 10^3$  [1]
- 5 a 10 000 [1]  
b 250 [1]  
c 1 500 000 [1]  
d 350 000 000 [1]
- 6 a  $1 \times 10^{-2}$  [1]  
b  $2 \times 10^{-3}$  [1]  
c  $1.2 \times 10^{-2}$  [1]  
d  $1.02 \times 10^{-2}$  [1]
- 7 a i  $1 \times 10^{-3}$  [1]  
ii 0.01 [1]  
b i  $2 \times 10^{-2}$  [1]  
ii 0.002 [1]  
c i  $3 \times 10^{-4}$  [1]  
ii 0.0003 [1]  
d i  $8 \times 10^{-4}$  [1]  
ii 0.0008 [1]
- 8 a  $5 \times 10^{-2}$  m [1]  
b  $5 \times 10^{-1}$  m [1]  
c  $5 \times 10^2$  m [1]  
d 5 m [1]  
e  $5 \times 10^{-4}$  m [1]  
f  $5 \times 10^{-7}$  m [1]
- 9 a 3 [1]  
b 3 [1]  
c 2 [1]  
d 1 [1]  
e 2 [1]  
f 3 [1]
- 10 a 1 m [1]  
b 1.3 m [1]  
c 1.26 m [1]
- 11 yes [1]
- 12 27 cm<sup>2</sup> (do not accept 27.0 cm<sup>2</sup>) [1]
- 13 600 cm<sup>2</sup> [1]
- 14 75 [1]
- 15 1.6 s [1]
- 16 a 0.16 mm [1]  
b 2 g [1]
- 17 3 m/s [1]
- 18 a B [1]  
b C [1]  
c 5 m/s [1]
- 19 a i 270 m [1]  
ii no distance [1]  
iii 270 m [1]  
b 1.5 m/s [1]
- 20 a 4 m/s [1]  
b friction [1]

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**Richard Woodside**



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