

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** 1×10^3 ; 3.5×10^3 ; 4.28×10^6 ; 5.04×10^2 ; 2.7056×10^4
b 1000; 2 000 000; 69 200; 134; 1 000 000 000
- a** 1×10^{-3} ; 7×10^{-3} ; 1×10^{-9} ; 5×10^{-3}
b 5×10^{-2} ; 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 $V = \pi r^2 h = \pi \times (5.0 \text{ cm})^2 \times 25 \text{ cm} = 2000 \text{ cm}^3 = 2 \times 10^{-3} \text{ m}^3$

(Page 9)

- a** 10 **b** 8.6 **c** 9.2
- a** 0.577 **b** 1.00 **c** 1.73

Minds On Physics Answers

Michal Rosen-Zvi



Minds On Physics Answers:

Decoding **Minds On Physics Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Minds On Physics Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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