

Practice Problems

1.1 Mathematics and Physics
pages 3–10

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For each problem, give the rewritten equation you would use and the answer.

1. A lightbulb with a resistance of 50.0 ohms is used in a circuit with a 9.0-volt battery. What is the current through the bulb?

$$I = \frac{V}{R} = \frac{9.0 \text{ volt}}{50.0 \text{ ohms}} = 0.18 \text{ ampere}$$

2. An object with uniform acceleration a , starting from rest, will reach a speed of v in time t according to the formula $v = at$. What is the acceleration of a bicyclist who accelerates from rest to 7 m/s in 4 s?

$$a = \frac{v}{t} = \frac{7 \text{ m/s}}{4 \text{ s}} = 1.75 \text{ m/s}^2$$

3. How long will it take a scooter accelerating at 0.400 m/s^2 to go from rest to a speed of 4.00 m/s?

$$t = \frac{v}{a} = \frac{4.00 \text{ m/s}}{0.400 \text{ m/s}^2} = 10.0 \text{ s}$$

4. The pressure on a surface is equal to the force divided by the area: $P = F/A$. A 53-kg woman exerts a force (weight) of 520 Newtons. If the pressure exerted on the floor is $32,500 \text{ N/m}^2$, what is the area of the soles of her shoes?

$$A = \frac{F}{P} = \frac{520 \text{ N}}{32,500 \text{ N/m}^2} = 0.016 \text{ m}^2$$

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Use dimensional analysis to check your equation before multiplying.

5. How many megahertz is 750 kilohertz?

$$750 \text{ kHz} \left(\frac{1000 \text{ Hz}}{1 \text{ kHz}} \right) \left(\frac{1 \text{ MHz}}{1,000,000 \text{ Hz}} \right) = 0.75 \text{ MHz}$$

6. Convert 5021 centimeters to kilometers.

$$5021 \text{ cm} \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 5.021 \times 10^{-2} \text{ km}$$

7. How many seconds are in a leap year?

$$366 \text{ days} \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 31,622,400 \text{ s}$$

8. Convert the speed 5.30 m/s to km/h.

$$\left(\frac{5.30 \text{ m}}{1 \text{ s}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 19.08 \text{ km/h}$$

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Solve the following problems.

9. a. $6.201 \text{ cm} + 7.4 \text{ cm} + 0.68 \text{ cm} + 12.0 \text{ cm}$

$$\begin{array}{r} 6.201 \text{ cm} \\ 7.4 \text{ cm} \\ 0.68 \text{ cm} \\ + 12.0 \text{ cm} \\ \hline 26.281 \text{ cm} \\ = 26.3 \text{ cm after rounding} \end{array}$$

- b. $1.6 \text{ km} + 1.62 \text{ m} + 1200 \text{ cm}$

$$\begin{array}{r} 1.6 \text{ km} = 1600 \text{ m} \\ 1.62 \text{ m} = 1.62 \text{ m} \\ 1200 \text{ cm} = + 12 \text{ m} \\ \hline 1613.62 \text{ m} \\ = 1600 \text{ m or } 1.6 \text{ km after rounding} \end{array}$$

10. a. $10.8 \text{ g} - 8.264 \text{ g}$

$$\begin{array}{r} 10.8 \text{ g} \\ - 8.264 \text{ g} \\ \hline 2.536 \text{ g} \\ = 2.5 \text{ g after rounding} \end{array}$$

Physics Principles Problems Answers Chapter 1

Lingjun Ying



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, Matter and Interactions, Volume 1 Ruth W. Chabay, Bruce A. Sherwood, 2018-07-31 Matter and Interactions offers a modern curriculum for introductory physics calculus based. It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions will be available as a single volume hardcover text and also two paperback volumes. Volume One includes chapters 1-12. **Oswaal NCERT Exemplar (Problems - Solutions) Class 11 Physics, Chemistry and Mathematics (Set of 3 Books) For 2024 Exam** Oswaal Editorial Board, 2023-10-28 Description of the product Chapter wise and Topic wise presentation Chapter wise Objectives A sneak peek into the chapter Mind Map A single page snapshot of the entire chapter Revision Notes Concept based study materials Tips Tricks Useful guidelines for attempting each question perfectly Some Commonly Made Errors Most common and unidentified errors are focused Expert Advice Oswaal Expert Advice on how to score more Oswaal QR Codes For Quick Revision on your Mobile Phones and Tablets

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Neural Theories of Mind William R. Uttal,2020-07-24 In this fascinating book William R Uttal raises the possibility that however much we learn about the anatomy and physiology of the brain and psychology we may never be able to cross the final bridge explaining how the mind is produced by the brain Three main classes of mind brain theory are considered and rejected field theories because they are based on a superficial analogy single cell theories because they emerge from a massive uncontrolled experimental program and neural net theories because they are constrained by combinatorial complexity To support his argument Uttal explores the empirical and conceptual foundations of these theoretical approaches and identifies flaws in their fundamental logic The author concludes that the problems preventing solution of the mind brain problem are intractable yet well within the confines of natural science **Mosby's Respiratory Care Equipment - E-Book** J. M. Cairo,2021-09-16 Master the equipment devices and techniques used in respiratory therapy Mosby's Respiratory Care Equipment 11th Edition provides a comprehensive guide to treating patients with cardiopulmonary dysfunction Using a how to approach this text helps you learn to identify and select equipment understand its operation and apply your knowledge to clinical practice It also discusses assessment testing protocols and troubleshooting of the devices used in airway management Written by noted educator J M Cairo and a team of expert contributors this leading text provides the skills that will help you breathe easier as you prepare for NBRC examinations Unique Clinical approach provides a how to approach to identifying equipment understanding how it works and applying the information in clinical practice Unique Organization of ventilators by application area and manufacturer makes it easier to learn review and locate ventilator information Unique Infection Control chapter reviews microbiology and infection control a topic that RTs must understand to prevent healthcare

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