

Practice Problems

1.1 Mathematics and Physics
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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. $6.201 \text{ cm} + 7.4 \text{ cm} + 0.68 \text{ cm} + 12.0 \text{ cm}$

$$6.201 \text{ cm}$$

$$7.4 \text{ cm}$$

$$0.68 \text{ cm}$$

$$+ 12.0 \text{ cm}$$

$$\hline 26.281 \text{ cm}$$

$$= 26.3 \text{ cm after rounding}$$

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

$$1.6 \text{ km} = 1600 \text{ m}$$

$$1.62 \text{ m} = 1.62 \text{ m}$$

$$1200 \text{ cm} = 12 \text{ m}$$

$$\hline 1613.62 \text{ m}$$

$$= 1600 \text{ m or } 1.6 \text{ km after rounding}$$

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

$$10.8 \text{ g}$$

$$- 8.264 \text{ g}$$

$$\hline 2.536 \text{ g}$$

$$= 2.5 \text{ g after rounding}$$

Physics Principles And Problems Chapter 5 Assessment Answers

**Lynn Harold Loomis, Shlomo Zvi
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Physics Principles And Problems Chapter 5 Assessment Answers

Glencoe Physics: Principles & Problems, Student Edition McGraw-Hill Education, 2007-12-20 Accelerate student learning with the perfect blend of content and problem solving strategies with this new Physics program Organized to save instructors preparation time and to meet the needs of students in diverse classrooms the program features Supplemental and Challenge Problems Pre AP Critical Thinking Problems and Practice Tests for end of course exams **Physics**, 2009 **A Level**

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University Physics Volume 1 of 3 (1st Edition Textbook) Samuel J. Ling, William Moebs, Jeff Sanny, 2023-05-14 Black white print University Physics is a three volume collection that meets the scope and sequence requirements for two and three semester calculus based physics courses Volume 1 covers mechanics sound oscillations and waves Volume 2 covers thermodynamics electricity and magnetism Volume 3 covers optics and modern physics This textbook emphasizes connections between theory and application making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject Frequent strong examples focus on how to approach a problem how to work with the equations and how to check and generalize the result **Holt McDougal Physics** Raymond A. Serway, 2012 [An Introduction to Error Analysis](#) John Robert Taylor, 1997-01-01 Problems after each chapter [School, Family, and Community Partnerships](#) Joyce L. Epstein, Mavis G. Sanders, Steven B. Sheldon, Beth S. Simon, Karen Clark Salinas, Natalie Rodriguez Jansorn, Frances L. Van Voorhis, Cecelia S. Martin, Brenda G. Thomas, Marsha D. Greenfeld, Darcy J. Hutchins, Kenyatta J. Williams, 2018-07-19 Strengthen programs of family and community engagement to promote equity and increase student success When schools families and communities collaborate and share responsibility for students education more students succeed in school Based on 30 years of research and fieldwork the fourth edition of the bestseller School Family and Community Partnerships Your Handbook for Action presents tools and guidelines to help develop more effective and more equitable programs of family and community engagement Written by a team of well known experts it provides a theory and framework of six types of involvement for action up to date research on school family and community collaboration and new materials for professional development and on going technical assistance Readers also will find Examples of best practices on the six types of involvement from preschools and elementary middle and high schools Checklists templates and evaluations to plan goal linked partnership programs and assess progress CD ROM with slides and notes for two presentations A new awareness session to orient colleagues on the major components of a research based partnership program and a full One Day Team Training Workshop to prepare school teams to develop their partnership programs As a foundational text this handbook demonstrates a proven approach to implement and sustain inclusive goal linked programs of partnership It shows how a good partnership program is an essential component of good school organization and school improvement for student success This book will help every district and all schools strengthen and continually improve their programs of family and community engagement **Principles & Practice of Physics** Eric Mazur, 2014-04-02 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that you

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Advanced Calculus (Revised Edition) Lynn Harold Loomis, Shlomo Zvi Sternberg, 2014-02-26
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divides roughly into a first half which develops the calculus principally the differential calculus in the setting of normed vector spaces and a second half which deals with the calculus of differentiable manifolds

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How Learning Works Susan

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Science Teaching Reconsidered National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Undergraduate Science Education, 1997-03-12 Effective science teaching requires creativity imagination and innovation In light of concerns about American science literacy scientists and educators have struggled to teach this discipline more effectively Science

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