

**Concept-Development  
Practice Page****6-1****Friction**

1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight  $W$  and normal force  $n$ .

- a. The net force on the crate is (zero) (greater than zero).  
b. Evidence for this is no acceleration.



2. A slight pull  $P$  is exerted on the crate, not enough to move it.

- a. The force of friction  $f$  acting on the crate is (less than) (equal to) (greater than)  $P$ .  
b. The net force on the crate is (zero) (greater than zero).



3. Pull  $P$  is increased until the crate begins to move. It is pulled so that it moves with constant velocity across the floor.

- a. Friction  $f$  is (less than) (equal to) (greater than)  $P$ .  
b. Constant velocity means acceleration is (zero) (greater than zero).  
c. The net force on the crate is (less than) (equal to) (greater than) zero.



4. Pull  $P$  is further increased and is now greater than friction  $f$ .

- a. The net force on the crate is (less than) (equal to) (greater than) zero.  
b. The net force acts toward the right, so acceleration acts toward the (left) (right).

5. If the pulling force  $P$  is 150 N and the crate doesn't move, what is the magnitude of  $f$ ? 150 N  
6. If the pulling force  $P$  is 200 N and the crate doesn't move, what is the magnitude of  $f$ ? 200 N  
7. If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? 250 N  
8. If the mass of the crate is 50 kg and sliding friction is 250 N, what is the acceleration of the crate when the pulling force is 250 N? 0 m/s<sup>2</sup> 300 N? 1 m/s<sup>2</sup> 500 N? 5 m/s<sup>2</sup>

**CONCEPTUAL PHYSICS**

# Conceptual Physics Practice Answers

**Paul G. Hewitt**



## Conceptual Physics Practice Answers:

**Practice Book for Conceptual Physics Fundamentals** Paul Hewitt, 2007-08-09 This valuable study tool features answers to odd numbered Exercises and Problems from the text to help build confidence and understanding of the key concepts in the textbook *Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics **Practice Book for Conceptual Physics** Paul G. Hewitt, 2021 This book is filled with computational exercise misconception busting questions analogies and straightforward practice questions and problems that help students tie it all together *Teachers Investigate Their Work* Allan Feldman, Herbert Altrichter, Peter Posch, Bridget Somekh, 2013-12-02 Teachers Investigate Their Work introduces the methods and concepts of action research through examples drawn from studies carried out by teachers The book is arranged as a handbook with numerous sub headings for easy reference and forty one practical methods and strategies to put into action some of them flagged as suitable starters Throughout the book the authors draw on their international practical experience of action research working in close collaboration with teachers It is an essential guide for teachers senior staff and coordinators of teacher professional development who are interested in investigating their own practice in order to improve it *Proceedings of the Twenty-Third Annual Conference of the Cognitive Science Society* Johanna D. Moore, Keith Stenning, 2001 Vol includes all papers and posters presented at 2001 Cog Sci Mtg summaries of symposia invited addresses Deals w issues of repres model g cog processes Appeals to scholars in subdisciplines that comprise Cog Sci Psych Computr Sci Neuro Lin Converging Perspectives on Conceptual Change Tamer G. Amin, Olivia Levrini, 2017-11-13 Conceptual change how conceptual understanding is transformed has been investigated extensively since the 1970s The field has now grown into a multifaceted interdisciplinary effort with strands of research in cognitive and developmental psychology education educational psychology and the learning sciences Converging Perspectives on Conceptual Change brings together an extensive team of expert contributors from around the world and offers a unique examination of how distinct lines of inquiry can complement each other and have converged over time Amin and Levrini adopt a new approach to assembling the diverse research on conceptual change the combination of short position pieces with extended synthesis chapters within each section as well as an overall synthesis chapter at the end of the volume provide a coherent and comprehensive perspective on

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**College Physics** Jerry D. Wilson,2000

**American Journal of Physics** ,1998

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