

CONCEPTUAL *Physics* PRACTICE PAGE

Chapter 3 Linear Motion
Non-Accelerated Motion

1. The sketch shows a ball rolling at constant velocity along a level floor. The ball rolls from the first position shown to the second in 1 second. The two positions are 1 meter apart. Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance).



- a. Did you draw successive ball positions evenly spaced, farther apart, or closer together? Why?
- b. The ball reaches the wall with a speed of _____ m/s and takes a time of _____ seconds.

2. Table 1 shows data of sprinting speeds of some animals. Make whatever computations necessary to complete the table.

TABLE 1

ANIMAL	DISTANCE	TIME	SPEED
CHEETAH	75 m	3 s	25 m/s
GREYHOUND	160 m	10 s	
GAZELLE	1 km		100 km/h
TURTLE		30 s	1 cm/s

Accelerated Motion

3. An object starting from rest gains a speed $v = at$ when it undergoes uniform acceleration. The distance it covers is $d = 1/2 at^2$. Uniform acceleration occurs for a ball rolling down an inclined plane. The plane below is tilted so a ball picks up a speed of 2 m/s each second; then its acceleration $a = 2 \text{ m/s}^2$. The positions of the ball are shown for 1-second intervals. Complete the six blank spaces for distance covered and the four blank spaces for speeds.



- a. Do you see that the total distance from the starting point increases as the square of the time? This was discovered by Galileo. If the incline were to continue, predict the ball's distance from the starting point for the next 3 seconds.
- b. Note the increase of distance between ball positions with time. Do you see an odd-integer pattern (also discovered by Galileo) for this increase? If the incline were to continue, predict the successive distances between ball positions for the next 3 seconds.

Conceptual Physics Answers Chapter 3

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Conceptual Physics Problem Solving Exercises in Physics Se Jennifer Bond Hickman, 1998-04-03 Instructor's Manual to Accompany Conceptual Physics Paul G. Hewitt, 1977 *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 **Conceptual Physics**, 1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981 Energy Research Abstracts, 1989 **Conceptual Physical Science** Paul G. Hewitt, 1998-11 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt's leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help readers The dynamic new media program includes hundreds of animations and interactive tutorials developed specifically for students taking physical science courses Media references throughout the book point readers to additional online help KEY TOPICS The book's consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science For college instructors students or anyone interested in physical science **American Journal of Physics**, 1997 **Student Study Guide & Selected Solutions Manual** David D. Reid, 2007 Physics for Scientists and Engineers Raymond A. Serway, John W. Jewett, 2004 The Companion Web Site <http://www.pse6.com> newly revised for this edition features student access to Quizzes Web Links Internet Exercises Learning Objectives and Chapter Outlines In addition instructors have password protected access to a downloadable file of the Instructor's Manual a Multimedia Manager demo and PowerPoint files of QUICK QUIZZES *El-Hi Textbooks and Serials in Print*, 2003 Resources in Education, 1974-07 **Development of Concepts of Physics** Arnold B. Arons, 1965 **Research in Education**, 1974 Symbols and Embodiment Manuel de Vega, Arthur M. Glenberg, Arthur C. Graesser, 2008 Cognitive scientists have a variety of approaches to studying cognition experimental psychology computer science robotics neuroscience educational psychology philosophy of mind and psycholinguistics to name but a few In addition they also differ in their approaches to cognition some of them consider that the mind works basically like a computer involving programs composed of abstract amodal and arbitrary symbols Others claim that cognition is embodied that is symbols must be grounded on perceptual motoric and emotional experience The existence of such different approaches has

consequences when dealing with practical issues such as understanding brain disorders designing artificial intelligence programs and robots improving psychotherapy or designing instructional programs The symbolist and embodiment camps seldom engage in any kind of debate to clarify their differences This book is the first attempt to do so It brings together a team of outstanding scientists adopting symbolist and embodied viewpoints in an attempt to understand how the mind works and the nature of linguistic meaning As well as being interdisciplinary all authors have made an attempt to find solutions to substantial issues beyond specific vocabularies and techniques

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