

Name: \_\_\_\_\_

Date: \_\_\_\_\_

AP Physics 1, Per. \_\_\_\_\_

Unit 2 Homework #9

## Free Fall Problems

For each of the following, a complete solution will consist of:

- a well-labeled diagram of the situation
- a list of all motion variables with givens, labeled with units and appropriate algebraic signs (+, -)
- a clear presentation by showing the equation used before producing a numerical answer

1. A body falls freely from rest on Earth.

(I will box the formula **before** plugging numbers in so that the relationship between the variables can be easily examined)

- a. Find its displacement from  $t = 0$  to  $t = 3s$ .

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t = 3s
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 = \frac{1}{2} (-9.8) 3^2 \\
 = -44.1m
 \end{array}$$

- b. if it falls 2 xs longer (for 6 s), how much farther will it fall? *Need the relationship between  $t$  and  $\Delta y$  without any other variables that would be affected by increasing  $t$ . Then isolate  $\Delta y$  since you want to know what happens to  $\Delta y$ : The relationship is boxed above*

$$\Delta y = \frac{1}{2} g t^2$$

*If time of fall is doubled,  $\Delta y$  will be increased by 4xs*

- c. Find the time for it to reach a speed of 25 m/s

$$\begin{array}{l}
 v_i = 0 \\
 v_f = 25m/s \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 v = v_i + g t \\
 \boxed{v = g t} \\
 25 = 9.8t \\
 t = 2.55s
 \end{array}$$

- d. Find the time to reach double the speed (50 m/s) *Need relationship between  $v$  and  $t$  without any variables that would be affected by changing the speed (see boxed equation above):*

$$v = g t$$

*if final velocity is doubled,  $t$  will be increased by 2xs*

- e. Find the time required for it to fall 300 m

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = -300m \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 -300 = \frac{1}{2} (-9.8) t^2 \\
 t = 7.82s
 \end{array}$$

# Fall Problems Worksheet Answers

**Chao Zhang**



## **Fall Problems Worksheet Answers:**

**Futuristic and Linguistic Perspectives on Teaching Writing to Second Language Students** Hancı-Azizoglu, Eda Başak, Kavaklı, Nurdan, 2020-12-11 The aptitude to write well is increasingly becoming a vital element that students need to succeed in college and their future careers. Students must be equipped with competent writing skills as colleges and jobs base the acceptance of students and workers on the quality of their writing. This situation captures the complexity of the fact that writing represents higher intellectual skills and leads to a higher rate of selection. Therefore, it is imperative that the best strategies for teaching writing to speakers of other languages be imparted to provide insights to teachers who can better prepare their students for future accomplishments. **Futuristic and Linguistic Perspectives on Teaching Writing to Second Language Students** examines the theoretical and practical implications that should be put in place for second language writers and offers critical futuristic and linguistic perspectives on teaching writing to speakers of other languages. Highlighting such topics as EFL/ESL composition, digital storytelling, and forming identity, this book is ideal for second language teachers and writing instructors as well as academicians, professionals, researchers, and students working in the field of language and linguistics.

**Effective Math Interventions** Robin S. Coddling, Robert J. Volpe, Brian C. Poncy, 2017-02-09 Building foundational whole number knowledge can help put K-5 students on the path to academic success and career readiness. Filling a gap for school practitioners, this book presents step-by-step guidelines for designing and implementing classwide, small group, and individual interventions for mathematics difficulties. Effective procedures for screening, assessment, intervention selection, and progress monitoring are described and illustrated with detailed case vignettes. User-friendly features include 20 reproducible handouts and forms. The print book has a large size format with lay-flat binding for easy photocopying. Purchasers get access to a Web page where they can download and print the reproducible materials. This book is in *The Guilford Practical Intervention in the Schools Series*, edited by T. Chris Riley-Tillman.

**Solving Math Word Problems** Asha K. Jitendra, 2007 This is a detailed scripted program using Schema-Based Instruction (SBI) designed as a framework for instructional implementation. It is primarily for school practitioners, e.g., special and general education teachers, school psychologists, etc., teaching critical word problem-solving skills to students with disabilities, grades 1-8.

**Manager's Tough Questions Answer Book** Al Guyant, Shirley Fulton, 1996 *THE MANAGER'S TOUGH QUESTION ANSWER BOOK* gives you hundreds of word-for-word responses that will help you defuse conflicts, gain the support of colleagues, motivate employees, and avoid misunderstandings. You'll find several choices of response for each question, making it easy for you to convey exactly the message you wish to send in every one of the job situations. Job Creation, 1982

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exams This revised and updated third edition offers new test questions and exercises Featuring information about various careers in the postal service and complete with a money back guarantee this book is all readers need to pass The Tax executive ,1987 Computer Science and Education Ron Colman,Paul Lorton,1976 **Topics in Instructional Computing** Association for Computing Machinery. Special Interest Group on Computer Uses in Education and Computer Science Education,1975 *Cambridge Primary Science Stage 6 Teacher's Resource Book with CD-ROM* Fiona Baxter,Liz Dilley,2014-05-22 Cambridge Primary Science is a flexible engaging course written specifically for the Cambridge Primary Science curriculum framework This Teacher s Resource for Stage 6 contains guidance on all components in the series Select activities and exercises to suit your teaching style and your learners abilities from the wide range of ideas presented Guidance includes suggestions for differentiation and assessment and supplementing your teaching with resources available online to help tailor your scheme of work according to your needs Answers to questions from the Learner s Book and Activity Book are also included The material is presented in editable format on CD ROM as well as in print to give you the opportunity to adapt it to your needs **Teaching Problem-solving Strategies** Daniel T. Dolan,James Williamson,1983 Provides junior high school mathematics teachers with a carefully developed systematic approach to teaching six problem solving strategies Glencoe Mathematics ,2001 **Problem Solving Excel Windows 95** Sherry L. Fowler,1997 For beginning and intermediate students especially business students using Excel 7 0 Provides a business oriented approach to solving problems with Excel 7 0 It reviews problem solving techniques provides hands on tutorials to encourage active participation and includes an extensive reference section for help answering Excel questions **Houghton Mifflin Math Central** Laurie Boswell,Patsy F. Kanter,1999 Excel 97 Secrets Partick J. Burns,Alison Barrows,1997-06-17 With Excel firmly established as the most popular and powerful spreadsheet program around you might expect Microsoft to slack off a bit Excel 97 Secrets however proves that the folks up in Redmond have not been idle In this in depth guide to Excel 97 s most advanced features including many not covered in the official documentation Excel know it alls Patrick J Burns and Alison Barrows reveal tips and techniques to boost you right to the top of the learning curve With Excel 97 Secrets you get up to speed quickly no matter which earlier version you ve been using Burns and Barrows orient you and provide clear explanations and practical examples of how to Take advantage of 16 levels of undo if only life were so easy Publish worksheets and workbooks on the World Wide Web for everyone on the Internet to see or for only your workgroup or organization to see Use enhanced PivotTables they re not only more powerful now but also they re easier to use Enjoy near WYSIWYG editing Run queries in the background Build formulas using more natural labels rather than abstract cell addresses Share workbooks with your workgroup and cobble together budgets and proposals more easily than ever before Increase productivity by automating tasks with Visual Basic for Applications Plus Excel 97 Secrets comes complete with a CD ROM packed with outstanding shareware freeware demos and VBA programming utilities **Home Economics Forum** ,1986 **Early Years** ,1985

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