

## Holt Physics

**Problem 12B****SIMPLE HARMONIC MOTION OF A SIMPLE PENDULUM****PROBLEM**

A simple pendulum with a length of 1.00 m would have a period of 13.5 s on Saturn's icy moon, Iapetus. Find the acceleration of gravity on Iapetus.

**SOLUTION**

Given:  $L = 1.00 \text{ m}$        $T = 13.5 \text{ s}$

Unknown:  $g = ?$

Choose the equation(s) or situation. Use the equation for the period of a simple pendulum and rearrange it to solve for  $g$ .

$$T = 2\pi \sqrt{\frac{L}{g}}$$

$$T^2 = \frac{4\pi^2 L}{g}$$

$$g = \frac{4\pi^2 L}{T^2} = \frac{4\pi^2 (1.00 \text{ m})}{(13.5 \text{ s})^2} = \boxed{8.22 \text{ m/s}^2}$$

**ADDITIONAL PRACTICE**

1. A simple pendulum with a length of  $3.0 \times 10^{-2} \text{ m}$  would have a period of 1.16 s on Venus. Calculate the acceleration of gravity on Venus.
2. On Mars, a simple pendulum with a length of 65.8 cm would have a period of 2.82 s. Calculate the acceleration of gravity on Mars.
3. On Mercury, a simple pendulum with a length of 1.14 m would have a period of 3.35 s. What is the acceleration of gravity on Mercury?
4. A simple pendulum with a length of 50.0 cm would have a period of 2.08 s on Pluto. Calculate the acceleration of gravity on Pluto.
5. Find the length of a pendulum that oscillates with a frequency of 1.0 Hz.
6. Find the length of a pendulum that oscillates with a frequency of 0.50 Hz.
7. Find the length of a pendulum that oscillates with a frequency of 2.5 Hz.
8. Calculate the period and frequency of a 6.200-m-long pendulum in Oslo, Norway, where  $g = 9.815 \text{ m/s}^2$ .
9. Calculate the period and frequency of a 2.800-m-long pendulum in Quito, Ecuador, where  $g = 9.788 \text{ m/s}^2$ .
10. Calculate the period and frequency of a 5.120-m-long pendulum in Cairo, Egypt, where  $g = 9.793 \text{ m/s}^2$ .

# Holt Physics Standardized Test Prep Answers Chapter 11

**RM Cervero**



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**Forthcoming Books** Rose Arny, 2003-04      **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12  
Books in Print Supplement, 2002      *Modern Methods in High School Teaching* Harl Roy Douglass, 1926 This volume addresses teachers and principals presenting a comprehensive treatment of the methods of teaching in high schools The author assumes a familiarity on the part of his readers with the nature of the learning process adolescence and the psychological foundations of interests and motives as they relate to whole hearted pupil activity The fundamentals of both theory and practice are set forth and an attempt has been made to outline and describe the newer types of procedure which are being employed in different subjects in the best secondary schools Throughout the volume the attempt has been made clearly to represent practices rather than to advocate their adoption The reader is permitted to draw his own conclusions The book will appeal to the type of reader who wants to be intelligent about what is going on in high school teaching      Te HS&T J Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02      **Holt General Science** William L. Ramsey, 1988      *Holt Algebra 1 2003* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977      **Children's Books in Print, 2007**, 2006  
**The Builder**, 1913      **Handbook of Thermoset Plastics** Hanna Dodiuk, 2021-10-25 Handbook of Thermoset Plastics Fourth Edition provides complete coverage of the chemical processes manufacturing techniques and design properties of each polymer along with its applications This new edition has been expanded to include the latest developments in the field with new chapters on radiation curing biological adhesives vitrimers and 3D printing This detailed handbook considers the practical implications of using thermoset plastics and the relationships between processing properties and applications as well as analyzing the strengths and weakness of different methods and applications The aim of the book is to help the reader to make the right decision and take the correct action on the basis of informed analysis avoiding the pitfalls the authors experience has uncovered In industry the book supports engineers scientists manufacturers and R D professionals working with plastics The information included will also be of interest to researchers and advanced students in plastics engineering polymer chemistry adhesives and coatings Offers a systematic approach guiding the reader through chemistry processing methods properties and applications of thermosetting polymers Includes thorough updates that discuss current practice and the new developments on biopolymers nanotechnology 3D printing radiation curing and biological adhesives Uses case studies to demonstrate how particular properties make different polymers suitable for different applications Covers end use and safety considerations      Curriculum Review, 1977      *Primary Plans*, 1913      Technical Book Review Index, 1966  
Papers and Addresses Presented at the Annual Meeting of the Technical Association of the Pulp and Paper Industry, 1980  
**New Technical Books** New York Public Library, 1967      Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1961-07      Electronics and Power, 1966 IEE centenary issue 1871 1971 v

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