

## 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 3.95 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 1.6 Hz.
6. Find the length of a pendulum that oscillates with a frequency of 8.58 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

**Roman Wölfel**



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### **Table of Contents Holt Physics Standardized Test Prep Answers Chapter 11**

1. Understanding the eBook Holt Physics Standardized Test Prep Answers Chapter 11
  - The Rise of Digital Reading Holt Physics Standardized Test Prep Answers Chapter 11
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Standardized Test Prep Answers Chapter 11
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Standardized Test Prep Answers Chapter 11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Standardized Test Prep Answers Chapter 11

- Personalized Recommendations
  - Holt Physics Standardized Test Prep Answers Chapter 11 User Reviews and Ratings
  - Holt Physics Standardized Test Prep Answers Chapter 11 and Bestseller Lists
5. Accessing Holt Physics Standardized Test Prep Answers Chapter 11 Free and Paid eBooks
    - Holt Physics Standardized Test Prep Answers Chapter 11 Public Domain eBooks
    - Holt Physics Standardized Test Prep Answers Chapter 11 eBook Subscription Services
    - Holt Physics Standardized Test Prep Answers Chapter 11 Budget-Friendly Options
  6. Navigating Holt Physics Standardized Test Prep Answers Chapter 11 eBook Formats
    - ePub, PDF, MOBI, and More
    - Holt Physics Standardized Test Prep Answers Chapter 11 Compatibility with Devices
    - Holt Physics Standardized Test Prep Answers Chapter 11 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Holt Physics Standardized Test Prep Answers Chapter 11
    - Highlighting and Note-Taking Holt Physics Standardized Test Prep Answers Chapter 11
    - Interactive Elements Holt Physics Standardized Test Prep Answers Chapter 11
  8. Staying Engaged with Holt Physics Standardized Test Prep Answers Chapter 11
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Holt Physics Standardized Test Prep Answers Chapter 11
  9. Balancing eBooks and Physical Books Holt Physics Standardized Test Prep Answers Chapter 11
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Holt Physics Standardized Test Prep Answers Chapter 11
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Holt Physics Standardized Test Prep Answers Chapter 11
    - Setting Reading Goals Holt Physics Standardized Test Prep Answers Chapter 11
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Holt Physics Standardized Test Prep Answers Chapter 11

- Fact-Checking eBook Content of Holt Physics Standardized Test Prep Answers Chapter 11
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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