

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 1.0 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 Answer Key Chapter 15

Siddappa N.Byrareddy



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Holt Physics Answer Key Chapter 15 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Holt Physics Answer Key Chapter 15**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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