

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 $g = 9.793 \text{ m/s}^2$.

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