

## CONCEPTUAL *Physics* PRACTICE PAGE

### Chapter 4 Newton's Second Law of Motion Mass and Weight

Learning physics is learning the connections among concepts in nature, and also learning to distinguish between closely-related concepts. Velocity and acceleration, previously treated, are often confused. Similarly in this chapter, we find that mass and weight are often confused. They aren't the same! Please review the distinction between mass and weight in your textbook. To reinforce your understanding of this distinction, circle the correct answers below.



Comparing the concepts of mass and weight, one is basic—fundamental—depending only on the internal makeup of an object and the number and kind of atoms that compose it. The concept that is fundamental is [mass] [weight].

The concept that additionally depends on location in a gravitational field is [mass] [weight].

[Mass] [Weight] is a measure of the amount of matter in an object and only depends on the number and kind of atoms that compose it.

It can correctly be said that [mass] [weight] is a measure of "laziness" of an object.

[Mass] [Weight] is related to the gravitational force acting on the object.

[Mass] [Weight] depends on an object's location, whereas [mass] [weight] does not.

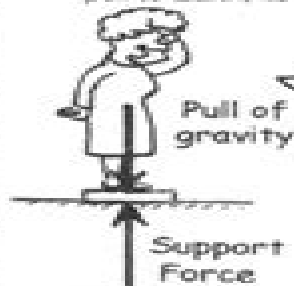
In other words, a stone would have the same [mass] [weight] whether it is on the surface of Earth or on the surface of the Moon. However, its [mass] [weight] depends on its location.

On the Moon's surface, where gravity is only about  $1/6^{\text{th}}$  Earth gravity [mass] [weight] [both the mass and the weight] of the stone would be the same as on Earth.

While mass and weight are not the same, they are [directly proportional] [inversely proportional] to each other. In the same location, twice the mass has [twice] [half] the weight.

The Standard International (SI) unit of mass is the [kilogram] [newton], and the SI unit of force is the [kilogram] [newton].

In the United States, it is common to measure the mass of something by measuring its gravitational pull to Earth, its weight. The common unit of weight in the U.S. is the [pound] [kilogram] [newton].



When I step on a weighing scale, two forces act on it; a downward pull of gravity, and an upward support force. These equal and opposite forces effectively compress a spring inside the scale that is calibrated to show weight. When in equilibrium, my weight =  $mg$ .

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## **Table of Contents Conceptual Physics Answers Chapter 4**

1. Understanding the eBook Conceptual Physics Answers Chapter 4
  - The Rise of Digital Reading Conceptual Physics Answers Chapter 4
  - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Answers Chapter 4
  - 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 Conceptual Physics Answers Chapter 4
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Answers Chapter 4
  - Personalized Recommendations
  - Conceptual Physics Answers Chapter 4 User Reviews and Ratings

- Conceptual Physics Answers Chapter 4 and Bestseller Lists
- 5. Accessing Conceptual Physics Answers Chapter 4 Free and Paid eBooks
  - Conceptual Physics Answers Chapter 4 Public Domain eBooks
  - Conceptual Physics Answers Chapter 4 eBook Subscription Services
  - Conceptual Physics Answers Chapter 4 Budget-Friendly Options
- 6. Navigating Conceptual Physics Answers Chapter 4 eBook Formats
  - ePub, PDF, MOBI, and More
  - Conceptual Physics Answers Chapter 4 Compatibility with Devices
  - Conceptual Physics Answers Chapter 4 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Conceptual Physics Answers Chapter 4
  - Highlighting and Note-Taking Conceptual Physics Answers Chapter 4
  - Interactive Elements Conceptual Physics Answers Chapter 4
- 8. Staying Engaged with Conceptual Physics Answers Chapter 4
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Conceptual Physics Answers Chapter 4
- 9. Balancing eBooks and Physical Books Conceptual Physics Answers Chapter 4
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Conceptual Physics Answers Chapter 4
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Conceptual Physics Answers Chapter 4
  - Setting Reading Goals Conceptual Physics Answers Chapter 4
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Conceptual Physics Answers Chapter 4
  - Fact-Checking eBook Content of Conceptual Physics Answers Chapter 4
  - 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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