

Mass & Gravity Class Exercises

Physics

1. a) You measure a bag of apples as weighing 85 N on a scale. How massive is the bag of apples?

Weight is another word for the strength of the force of gravity.

$$F_g = 85 \text{ N}$$

$$g = 9.8 \text{ N/kg (assuming we're on earth)}$$

Rearrange the gravitational force equation to solve for mass

$$mg = F_g$$

$$m = \frac{F_g}{g}$$

$$m = \frac{85 \text{ N}}{9.8 \text{ N/kg}}$$

$$m = 8.67 \text{ kg}$$

- b) If you were to carry the bag of apples to the surface of the moon, where the gravitational field is only 1.67 N/kg, how much would the apples weigh?

Solving for the weight means we want to know the force of gravity

$$F_g = mg$$

We need to know the object's mass (g) and the strength of the gravitational field that it is in (g).

$$m = 8.67 \text{ kg (an object's mass always stays the same)}$$

$$g = 1.67 \text{ N/kg}$$

$$F_g = mg$$

$$F_g = (8.67 \text{ kg})(1.67 \text{ N/kg})$$

$$F_g = 14.48 \text{ N}$$

$$\vec{F}_g = 14.48 \text{ N, down}$$

2. a) You weigh yourself on a scale. What does the scale read in Newtons (1 lb = 4.45 N)?

[Answers will vary, depending on your weight. As an example 180 lbs = 801 N]

- b) How much mass do you have?

[for the 180 lb person, $m = 81.73 \text{ kg}$]

- c) If you went to the moon, how much would you weigh?

[for the person who is 180 lb on earth, $F_g = 136.49 \text{ N}$ or 30.7 lbs. $\vec{F}_g = 14.48 \text{ N, down}$]

Practice Problems Gravity Drips

Jicheng Xie



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Table of Contents Practice Problems Gravity Drips

1. Understanding the eBook Practice Problems Gravity Drips
 - The Rise of Digital Reading Practice Problems Gravity Drips
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice Problems Gravity Drips
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice Problems Gravity Drips
 - Personalized Recommendations
 - eBook User Reviews and Ratings
 - eBook Bestseller Lists
5. Accessing Practice Problems Gravity Drips Free and Paid eBooks
 - eBook Public Domain eBooks
 - eBook Subscription Services
 - eBook Budget-Friendly Options
6. Navigating Practice Problems Gravity Drips eBook Formats
 - ePub, PDF, MOBI, and More
 - eBook Compatibility with Devices
 - eBook Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of eBook
 - Highlighting and Note-Taking eBook
 - Interactive Elements eBook
8. Staying Engaged with Practice Problems Gravity Drips

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Practice Problems Gravity Drips
- 9. Balancing eBooks and Physical Books Practice Problems Gravity Drips
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice Problems Gravity Drips
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Practice Problems Gravity Drips
 - Setting Reading Goals Practice Problems Gravity Drips
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Practice Problems Gravity Drips
 - Fact-Checking eBook Content of Practice Problems Gravity Drips
 - 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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