

# Weight, Mass and Gravity Practice

Use the following formula to solve for weight:

$$\text{Weight (W)} = \text{Mass (m)} \times \text{gravity (g)} \quad W = mg$$

**Mass** is measured in kilograms (kg)

**Gravity on earth** is a constant:  $9.8 \text{ m/s}^2$

**Weight** is measured in Newton's ( $1 \text{ N} = 1 \text{ kg} \times \text{m/s}^2$ )

Answer the following questions – show ALL WORK and UNITS

1. Define Mass – **the amount of stuff (atoms) that makes up an object**

2. Define Weight – **the force of gravity on an object**

3. Describe what will happen (if anything) to mass and weight when you go to the moon.

**The mass will remain the same. The weight will decrease because the moon is less massive than the Earth.**

a. Why would this happen?

**The force due to gravity on the moon is less because the moon is less massive than the earth and thus has a smaller gravitational force.**

4. Find the weight of a 60 kg astronaut on earth

$$w = mg$$

$$w = ? \text{ N}$$

$$m = 60 \text{ kg}$$

$$g = 9.8 \text{ m/s}^2$$

$$w = 60 \text{ kg} \times 9.8 \text{ m/s}^2$$

$$w = 588 \text{ N}$$

5. Find the weight of the same object from #4 on a planet where the gravitational attraction has been reduced to 1/10 of the earth's pull. Show all work.

**First we need to find 1/10 of the acceleration due to gravity on the earth.**

# Names And Formulas Worksheet 1 Physical Science 233

**J Elliott**



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## **Table of Contents Names And Formulas Worksheet 1 Physical Science 233**

1. Understanding the eBook Names And Formulas Worksheet 1 Physical Science 233
  - The Rise of Digital Reading Names And Formulas Worksheet 1 Physical Science 233
  - Advantages of eBooks Over Traditional Books
2. Identifying Names And Formulas Worksheet 1 Physical Science 233
  - 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 Names And Formulas Worksheet 1 Physical Science 233
  - User-Friendly Interface
4. Exploring eBook Recommendations from Names And Formulas Worksheet 1 Physical Science 233
  - Personalized Recommendations
  - Names And Formulas Worksheet 1 Physical Science 233 User Reviews and Ratings
  - Names And Formulas Worksheet 1 Physical Science 233 and Bestseller Lists
5. Accessing Names And Formulas Worksheet 1 Physical Science 233 Free and Paid eBooks

- Names And Formulas Worksheet 1 Physical Science 233 Public Domain eBooks
  - Names And Formulas Worksheet 1 Physical Science 233 eBook Subscription Services
  - Names And Formulas Worksheet 1 Physical Science 233 Budget-Friendly Options
6. Navigating Names And Formulas Worksheet 1 Physical Science 233 eBook Formats
    - ePub, PDF, MOBI, and More
    - Names And Formulas Worksheet 1 Physical Science 233 Compatibility with Devices
    - Names And Formulas Worksheet 1 Physical Science 233 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Names And Formulas Worksheet 1 Physical Science 233
    - Highlighting and Note-Taking Names And Formulas Worksheet 1 Physical Science 233
    - Interactive Elements Names And Formulas Worksheet 1 Physical Science 233
  8. Staying Engaged with Names And Formulas Worksheet 1 Physical Science 233
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Names And Formulas Worksheet 1 Physical Science 233
  9. Balancing eBooks and Physical Books Names And Formulas Worksheet 1 Physical Science 233
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Names And Formulas Worksheet 1 Physical Science 233
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Names And Formulas Worksheet 1 Physical Science 233
    - Setting Reading Goals Names And Formulas Worksheet 1 Physical Science 233
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Names And Formulas Worksheet 1 Physical Science 233
    - Fact-Checking eBook Content of Names And Formulas Worksheet 1 Physical Science 233
    - 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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
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