

## Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H<sub>2</sub>O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
-	58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
-	84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
-	159.6

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### **Table of Contents Modeling Chemistry Unit 7 Test Answers**

1. Understanding the eBook Modeling Chemistry Unit 7 Test Answers
  - The Rise of Digital Reading Modeling Chemistry Unit 7 Test Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Chemistry Unit 7 Test Answers
  - 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 Modeling Chemistry Unit 7 Test Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Chemistry Unit 7 Test Answers
  - Personalized Recommendations
  - Modeling Chemistry Unit 7 Test Answers User Reviews and Ratings
  - Modeling Chemistry Unit 7 Test Answers and Bestseller Lists

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