Name _____ Date _____ Class _____

10 CHEMICAL QUANTITIES

Practice Problems

On a piece of paper, solve the following problems.

YOU MUST SHOW YOUR WORK TO GET CREDIT FOR YOUR ANSWERS!!!

SECTION 10.1 THE MOLE: A MEASUREMENT OF MATTER

1. What is the molar mass of sucrose ($C_{12}H_{22}O_{11}$)?
2. What is the molar mass of each of the following compounds?
   a. phosphorus pentachloride (PCl_5)
   b. uranium hexafluoride (UF_6)
3. Calculate the molar mass of each of the following ionic compounds:
   a. $KMnO_4$
   b. $Ca_3(PO_4)_2$
4. How many moles is 3.52×10^{24} molecules of water?
5. How many atoms of zinc are in 0.60 mol of zinc?
6. What is the mass of 1.00 mol of oxygen (O_2)?

SECTION 10.2 MOLE–MASS AND MOLE–VOLUME RELATIONSHIPS

1. What is the molar mass of each of the following compounds?
   a. $C_6H_{12}O_6$ b. $NaHCO_3$ c. C_3H_{12} d. KNH_4SO_4
2. Calculate the mass in grams of each of the following:
   a. 8.0 mol lead oxide (PbO)
   b. 0.75 mol hydrogen sulfide (H_2S)
   c. 0.00100 mol silicon tetrahydride (SiH_4)
   d. 1.50×10^{-2} mol molecular oxygen (O_2)
   e. 2.30 mol ethylene glycol ($C_2H_6O_2$)
3. How many grams are in 1.73 mol of dinitrogen pentoxide (N_2O_5)?
4. How many grams are in 0.658 mol of calcium phosphate [$Ca_3(PO_4)_2$]?
5. Calculate the number of moles in each of the following:
   a. 0.50 g sodium bromide (NaBr)
   b. 13.5 g magnesium nitrate [$Mg(NO_3)_2$]
   c. 1.02 g magnesium chloride ($MgCl_2$)
   d. 0.00100 g monochloromethane (CH_3Cl)
   e. 1.50×10^{-5} g propylene glycol [$C_3H_6(OH)_2$]
6. A chemist plans to use 435.0 grams of ammonium nitrate (NH_4NO_3) in a reaction. How many moles of the compound is this?
7. A solution is to be prepared in a laboratory. The solution requires 0.0465 mol of quinine ($C_{20}H_{24}N_2O_2$). What mass, in grams, should the laboratory technician obtain in order to make the solution?
8. What is the volume at STP of 2.66 mol of methane (CH_4) gas?
9. How many moles is 135 L of ammonia (NH_3) gas at STP?

Chemistry Chapter 10 The Mole Study Answers

Chao Zhang

Chemistry Chapter 10 The Mole Study Answers:

Unveiling the Magic of Words: A Report on "**Chemistry Chapter 10 The Mole Study Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Chemistry Chapter 10 The Mole Study Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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Table of Contents Chemistry Chapter 10 The Mole Study Answers

1. Understanding the eBook Chemistry Chapter 10 The Mole Study Answers
    - The Rise of Digital Reading Chemistry Chapter 10 The Mole Study Answers
    - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Chapter 10 The Mole Study 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 Chemistry Chapter 10 The Mole Study Answers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Chapter 10 The Mole Study Answers
    - Personalized Recommendations
    - Chemistry Chapter 10 The Mole Study Answers User Reviews and Ratings

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