

Mole Calculation Practice Worksheet

Answer the following questions:

- 1) How many moles are in 25 grams of water?

$$\frac{25\text{g H}_2\text{O}}{18.02\text{g H}_2\text{O}} \left| \frac{1\text{ mol H}_2\text{O}}{18.02\text{g H}_2\text{O}} \right| = 1.4 \text{ moles}$$

- 2) How many grams are in 4.5 moles of Li_2O ?

$$\frac{4.5\text{ mol Li}_2\text{O}}{1\text{ mol Li}_2\text{O}} \left| \frac{29.88\text{g Li}_2\text{O}}{1\text{ mol Li}_2\text{O}} \right| = 130 \text{ g}$$

- 3) How many molecules are in 23 moles of oxygen?

$$\frac{23\text{ mol O}_2}{1\text{ mol O}_2} \left| \frac{6.02 \times 10^{23} \text{ molecules}}{1\text{ mol O}_2} \right| = 1.4 \times 10^{25} \text{ molecules}$$

- 4) How many moles are in 3.4×10^{23} molecules of H_2SO_4 ?

$$\frac{3.4 \times 10^{23} \text{ molecules H}_2\text{SO}_4}{6.02 \times 10^{23} \text{ molecules H}_2\text{SO}_4} \left| \frac{1\text{ mol H}_2\text{SO}_4}{6.02 \times 10^{23} \text{ molecules H}_2\text{SO}_4} \right| = 0.56 \text{ moles}$$

- 5) How many molecules are in 25 grams of NH_3 ?

$$\frac{25\text{g NH}_3}{17.03\text{g NH}_3} \left| \frac{1\text{ mol NH}_3}{17.03\text{g NH}_3} \right| \left| \frac{6.02 \times 10^{23} \text{ molecules NH}_3}{1\text{ mol NH}_3} \right| = 8.8 \times 10^{23} \text{ molecules}$$

- 6) How many grams are in 8.2×10^{22} molecules of N_2I_4 ?

$$\frac{8.2 \times 10^{22} \text{ molecules N}_2\text{I}_4}{6.02 \times 10^{23} \text{ molecules N}_2\text{I}_4} \left| \frac{1\text{ mol N}_2\text{I}_4}{6.02 \times 10^{23} \text{ molecules N}_2\text{I}_4} \right| \left| \frac{789.42\text{g N}_2\text{I}_4}{1\text{ mol N}_2\text{I}_4} \right| = 110\text{g}$$

Skill Practice 31 Answers Moles And Formulas

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Table of Contents Skill Practice 31 Answers Moles And Formulas

1. Understanding the eBook Skill Practice 31 Answers Moles And Formulas
 - The Rise of Digital Reading Skill Practice 31 Answers Moles And Formulas
 - Advantages of eBooks Over Traditional Books
2. Identifying Skill Practice 31 Answers Moles And Formulas
 - 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 Skill Practice 31 Answers Moles And Formulas
 - User-Friendly Interface
4. Exploring eBook Recommendations from Skill Practice 31 Answers Moles And Formulas
 - Personalized Recommendations
 - Skill Practice 31 Answers Moles And Formulas User Reviews and Ratings
 - Skill Practice 31 Answers Moles And Formulas and Bestseller Lists
5. Accessing Skill Practice 31 Answers Moles And Formulas Free and Paid eBooks
 - Skill Practice 31 Answers Moles And Formulas Public Domain eBooks
 - Skill Practice 31 Answers Moles And Formulas eBook Subscription Services
 - Skill Practice 31 Answers Moles And Formulas Budget-Friendly Options

6. Navigating Skill Practice 31 Answers Moles And Formulas eBook Formats
 - ePub, PDF, MOBI, and More
 - Skill Practice 31 Answers Moles And Formulas Compatibility with Devices
 - Skill Practice 31 Answers Moles And Formulas Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Skill Practice 31 Answers Moles And Formulas
 - Highlighting and Note-Taking Skill Practice 31 Answers Moles And Formulas
 - Interactive Elements Skill Practice 31 Answers Moles And Formulas
8. Staying Engaged with Skill Practice 31 Answers Moles And Formulas
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Skill Practice 31 Answers Moles And Formulas
9. Balancing eBooks and Physical Books Skill Practice 31 Answers Moles And Formulas
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Skill Practice 31 Answers Moles And Formulas
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Skill Practice 31 Answers Moles And Formulas
 - Setting Reading Goals Skill Practice 31 Answers Moles And Formulas
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Skill Practice 31 Answers Moles And Formulas
 - Fact-Checking eBook Content of Skill Practice 31 Answers Moles And Formulas
 - 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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