Chemistry 11 - MOLE RATIOS (using the three step method)

Magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. The chemical equation is given as the following:

$$Mg(s) + 2HCl(aq) \rightarrow MgCl_2 + H_2(g)$$

If 4 moles of HCl is used, how many moles of MgCl2 will be formed in the reaction?

Step (1): What is the mole ratio for HCl to MgCl₂?

2 mol HCl: 1 mol MgCl₂

Step (2): Write two conversion factors for this mole ratio.

2 mol HCl	4047	1 mol MgCl ₂
1 mod MgCl ₂		2 mol HCl

Step (3): Calculate the number of moles of MgCl₂ formed.

What you want = What you have X Conversion factor

2 mol MgCl₂

Now try these example questions on a separate sheet of paper using the 3-step method!

a) If 0.65 moles of CaSi₂ is used, how many moles of Sb will be formed in the reaction?

Answer: 0.43 mol Sb

b) If 1.47 moles of Si is formed in the reaction, how many moles of SbCl₃ was used at the start of the reaction?

Answer: 0.49 mol SbCl₃

2. In a Chemistry 11 experiment, John mixes 0.010 moles of calcium chloride together with silver nitrate in a beaker. This results in the formation of silver chloride and calcium nitrate. How many moles of silver chloride are formed in the reaction?

Mole Ratio Worksheet Answer Key

Robert C. Smoot, Smoot, Richard G. Smith, Jack Price

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- 1. Understanding the eBook Mole Ratio Worksheet Answer Key
 - The Rise of Digital Reading Mole Ratio Worksheet Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mole Ratio Worksheet Answer Key
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - $\circ \ \ Popular \ eBook \ Platforms$
 - Features to Look for in an Mole Ratio Worksheet Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mole Ratio Worksheet Answer Key
 - Personalized Recommendations

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

- 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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