

1/5/16

Mole Ratio Worksheet

Key

1) Given this equation: $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$, write the following molar ratios:

- a) N_2 / H_2 1:3
 b) N_2 / NH_3 1:2
 c) H_2 / NH_3 3:2

2) Given the following equation: $8\text{H}_2 + \text{S}_8 \rightarrow 8\text{H}_2\text{S}$, write the following molar ratios:

- a) $\text{H}_2 / \text{H}_2\text{S}$ 8:8 \rightarrow 1:1 (reduced)
 b) H_2 / S_8 8:1
 c) $\text{H}_2\text{S} / \text{S}_8$ 8:1

3) Answer the following questions for this equation: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

- a) What is the $\text{H}_2 / \text{H}_2\text{O}$ molar ratio? 2:2 \rightarrow 1:1 (reduced)
 b) Suppose you had 20 moles of H_2 on hand and plenty of O_2 , how many moles of H_2O could you make?

$$\frac{20 \text{ mole H}_2}{2 \text{ H}_2} \times \frac{2 \text{ H}_2\text{O}}{2 \text{ H}_2} = \boxed{20 \text{ mole H}_2\text{O}}$$

 c) What is the $\text{O}_2 / \text{H}_2\text{O}$ molar ratio?
 1:2
 d) Suppose you had 20 moles of O_2 and enough H_2 , how many moles of H_2O could you make?

$$\frac{20 \text{ mol O}_2}{1 \text{ O}_2} \times \frac{2 \text{ H}_2\text{O}}{2 \text{ H}_2} = \boxed{40 \text{ mol H}_2\text{O}}$$

4) Use this equation: $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$, for the following problems

- a) If you used 1 mole of N_2 , how many moles of NH_3 could be produced? $\boxed{2}$
 b) If 10 moles of NH_3 were produced, how many moles of N_2 would be required?

$$\frac{10 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{1 \text{ N}_2}{1 \text{ N}_2} = \boxed{5 \text{ mol N}_2}$$

 c) If 3.00 moles of H_2 were used, how many moles of NH_3 would be made?

$$\frac{3 \text{ mol H}_2}{3 \text{ H}_2} \times \frac{2 \text{ NH}_3}{2 \text{ NH}_3} = \boxed{2 \text{ mol NH}_3}$$

 d) If 0.600 moles of NH_3 were produced, how many moles of H_2 are required?

$$\frac{0.6 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{3 \text{ H}_2}{1 \text{ N}_2} = \boxed{0.9 \text{ mol H}_2}$$

Mole Ratio Answers

DJ Losen



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Table of Contents Mole Ratio Answers

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

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