

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)  $\text{N}_2 / \text{H}_2$  1:3

b)  $\text{N}_2 / \text{NH}_3$  1:2

c)  $\text{H}_2 / \text{NH}_3$  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)  $\text{H}_2 / \text{S}_8$  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  $\text{H}_2$  on hand and plenty of  $\text{O}_2$ , how many moles of  $\text{H}_2\text{O}$  could you make?  $\frac{20 \text{ mole H}_2}{2 \text{ H}_2} \times \frac{2 \text{ H}_2\text{O}}{1} = \boxed{20 \text{ mole H}_2\text{O}}$

c) What is the  $\text{O}_2 / \text{H}_2\text{O}$  molar ratio?

1:2

d) Suppose you had 20 moles of  $\text{O}_2$  and enough  $\text{H}_2$ , how many moles of  $\text{H}_2\text{O}$  could you make?  $\frac{20 \text{ mol O}_2}{1 \text{ O}_2} \times \frac{2 \text{ H}_2\text{O}}{1} = \boxed{40 \text{ mol H}_2\text{O}}$

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  $\text{N}_2$ , how many moles of  $\text{NH}_3$  could be produced?  $\boxed{2}$

b) If 10 moles of  $\text{NH}_3$  were produced, how many moles of  $\text{N}_2$  would be required?  $\frac{10 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{1 \text{ N}_2}{1} = \boxed{5 \text{ mol N}_2}$

c) If 3.00 moles of  $\text{H}_2$  were used, how many moles of  $\text{NH}_3$  would be made?  $\frac{3 \text{ mol H}_2}{3 \text{ H}_2} \times \frac{2 \text{ NH}_3}{1} = \boxed{2 \text{ mol NH}_3}$

d) If 0.600 moles of  $\text{NH}_3$  were produced, how many moles of  $\text{H}_2$  are required?  $\frac{0.6 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{3 \text{ H}_2}{1} = \boxed{0.9 \text{ mol H}_2}$

# Mole Ratio Worksheet Chemistry Answers

**Michal Rosen-Zvi**



## **Mole Ratio Worksheet Chemistry Answers:**

## **Mole Ratio Worksheet Chemistry Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Mole Ratio Worksheet Chemistry Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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