

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? $\frac{20 \text{ mole H}_2}{2 \text{ H}_2} \times \frac{2 \text{ H}_2\text{O}}{1} = \boxed{20 \text{ mole H}_2\text{O}}$

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

1:2

d) Suppose you had 20 moles of O_2 and enough H_2 , how many moles of H_2O could you make? $\frac{20 \text{ mol O}_2}{1 \text{ O}_2} \times \frac{2 \text{ H}_2\text{O}}{1} = \boxed{40 \text{ mol H}_2\text{O}}$

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

c) If 3.00 moles of H_2 were used, how many moles of NH_3 would be made? $\frac{3 \text{ mol H}_2}{3 \text{ H}_2} \times \frac{2 \text{ NH}_3}{1} = \boxed{2 \text{ mol NH}_3}$

d) If 0.600 moles of NH_3 were produced, how many moles of H_2 are required? $\frac{0.6 \text{ mol NH}_3}{2 \text{ NH}_3} \times \frac{3 \text{ H}_2}{1} = \boxed{0.9 \text{ mol H}_2}$

Mole Ratio Worksheet Answers

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