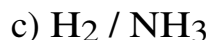
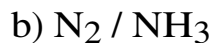
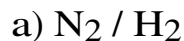
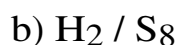
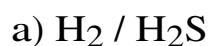


Mole Ratio Worksheet

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



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



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?

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?

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

d) Suppose you had 20 moles of O_2 and enough H_2 , how many moles of H_2O could you make?

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?

b) If 10 moles of NH_3 were produced, how many moles of N_2 would be required?

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

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