Mole Ratio Worksheet

Emirates National School

1) Given this equation: N2 + 3 H2 ---> 2 NH3, write the following molar ratios:
a) N2 / H2

b) N2 / NH3

c) H2 / NH3

2) Given the following equation: 8 H2 + S8 ---> 8 H2S, write the following molar ratios:
a) H2 / H2S

b) H2 / S8

c) H2S / S8

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3) Answer the following questions for this equation: 2 H_2 + O_2 ---> 2 H_2O

a) What is the H_2 / H_2O 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 O_2 / H_2O molar ratio?

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

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4) Use this equation: $N_2 + 3\ H_2 \rightarrow 2\ NH_3$, 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?

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