Name	answer key	Date	e
Mole Ratio Worksheet			
1) Given this equation: N2 + 3H2>2 NH3, write the following molar ratios:			
a) N2 / H2	1:3		
b) N2/NH3	1:2		
c) H2 / Nh3 3:	2		
2) Given the following equation: 8 H2 + S8> 8 H2S, write the following molar ratios: a) H2 / H2S 8:8			
b) H2 / S8			
c) H2S / S8 8:1			
3) Answer the following questions for this equation: $2 \text{ Hz} + \text{O2} > 2 \text{ H2O}$ a) What is the H2/H2O molar ratio? 2:2			
b) Suppose you had 20 moles of H2 on hand and plenty of O2. how many moles of II2O could you make? 20 mole H ₂ 2 H ₂ 0			
c) What is the C	O2 / H2O molar ratio?	_	2 H ₂
d) Suppose you had 20 moles of O2 and enough H2, how many moles of H2O could you make?			
		0 mole O ₂ 2 H ₂ 0 O ₂	
4) Use this equation: N2 + 3H2> 2 NH3, for the following problems a) If you used 1 mole of N2, how many moles of NH3 could be produced? b) If 10 moles of NH3 were produced, how many moles of Ng would be required? c) If 3.00 moles of H2 were used, how many moles of NH3 would be made? 3 mole N. 2 Nh.			
c) If 3.00 moles of H2 were used, how many moles of NH3 would be made? 3 mole N ₂ 2 Nh ₂ 3 H ₂ d) If 0.600 moles of NH3 were produced, how many moles of H2 are required?			
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