

Name \_\_\_\_\_ Period \_\_\_\_\_

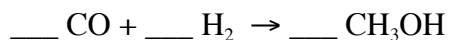
### Mole Ratio Problems #2

Perform the following conversions. Show all of your work. You must use dimensional analysis. Using units and significant figures count!

1) According to the equation below how many moles of FeCl<sub>3</sub> can be formed by 5.00 moles of Cl<sub>2</sub>?



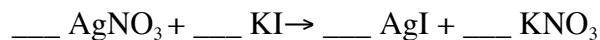
2) According to the equation below how many moles of CH<sub>3</sub>OH can be formed by 5.00 moles of H<sub>2</sub>?



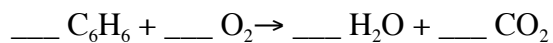
3) According to the equation below how many moles of NH<sub>3</sub> react with 3.0 moles of H<sub>3</sub>PO<sub>4</sub>?



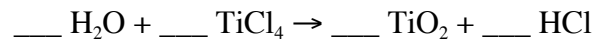
4) According to the equation below how many moles of AgI can be formed by 10.00 moles of KI?



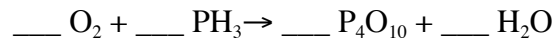
5) According to the equation below how many moles of CO<sub>2</sub> can be formed by 7.5 moles of C<sub>6</sub>H<sub>6</sub>?



6) According to the equation below how many moles of  $\text{TiO}_2$  can be formed by 0.250 moles of  $\text{H}_2\text{O}$ ?



7) According to the equation below how many moles of  $\text{H}_2\text{O}$  can be formed by 25.0 moles of  $\text{PH}_3$ ?



8) According to the equation below how many moles of  $\text{H}_2\text{O}$  can be formed by 0.0050 moles of  $\text{BaCO}_3$ ?



9) According to the equation below how many moles of  $\text{H}_2$  can be formed by 15 moles of  $\text{NaBH}_4$ ?



10) According to the equation below how many moles of  $\text{NaCl}$  can be formed by 0.15 moles of  $\text{SCl}_2$ ?

