

Name _____ Period _____

Mole Ratio Problems

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 NH_3 can be formed by 5.00 moles of H_2 ?



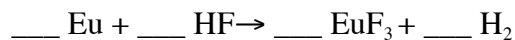
2) According to the equation below how many moles of NH_3 can be formed by 5.00 moles of N_2 ?



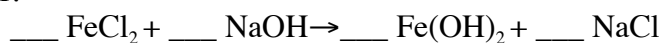
3) According to the equation below how many moles of HgBr_2 can be formed by 3.0 moles of Hg ?



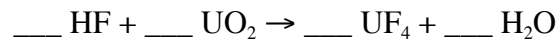
4) According to the equation below how many moles of EuF_3 can be formed by 10.00 moles of HF ?



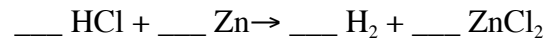
5) According to the equation below how many moles of Fe(OH)_2 can be formed by 7.5 moles of NaOH ?



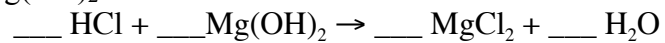
6) According to the equation below how many moles of UF_4 can be formed by 0.250 moles of UO_2 ?



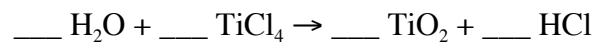
7) According to the equation below how many moles of H_2 can be formed by 25.0 moles of HCl ?



8) According to the equation below how many moles of H_2O can be formed by 0.0050 moles of $\text{Mg}(\text{OH})_2$?



9) According to the equation below how many moles of HCl can be formed by 0.25 moles of TiCl_4 ?



10) According to the equation below how many moles of HCl can be formed by 0.15 moles of TiCl_4 ?

