**Stoichiometry / Limiting Reagent Quiz: Gen Chem Makeup**

1. I’m going to do this reaction: \_\_\_ CuCl2 + \_\_\_ PbBr4 → \_\_\_ PbCl4 + \_\_\_ CuBr2
2. Balance the equation above in the spaces provided (1 pt)
3. If I combine 25 grams of copper(II) chloride with 40 grams of lead(IV) bromide, how many grams of lead(IV) chloride will I make? (7 pt)
4. What is the limiting reagent? (1 pt) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How much of the excess reagent remains after the reaction has completed? (4 pt)
6. If I actually make 1.2 grams of lead(IV) chloride, what’s my percent yield? Is this reasonable? Explain. (4 pt)
7. Consider the reaction: \_\_\_ LiOH + \_\_\_ MnF4 → \_\_\_ LiF + \_\_\_ Mn(OH)4
8. Balance the equation above in the spaces provided (1 pt)
9. If I combine 8.5 grams of lithium hydroxide with 30.0 grams of manganese(IV) fluoride, how many grams of manganese(IV) hydroxide will I make? (7 pt)
10. What is the limiting reagent? (1 pt) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. How much of the excess reagent remains after the reaction has completed? (4 pt)
12. If I actually make 95 grams of manganese(IV) hydroxide, what’s my percent yield? Is this reasonable? Explain. (4 pt)