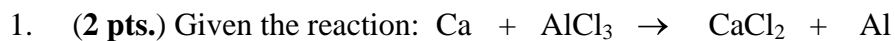
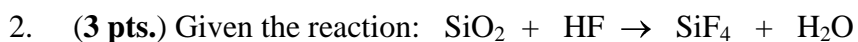


## Unit #7 Practice Blackboard Insert

**Do not assume any chemical reaction is balanced**



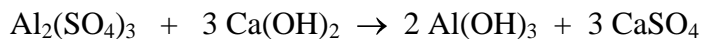
How many moles of calcium chloride are produced when 0.975 moles of aluminum chloride are reacted with excess calcium?



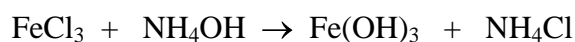
How many grams of silicon tetrafluoride are produced if 45.67 grams of silicon dioxide are reacted with excess hydrofluoric acid?

**OVER**

3. (2 pts.) The following reaction was carried out in the lab. The theoretical yield of aluminum hydroxide was calculated to be 15.77 grams. If 13.65 grams of  $\text{Al}(\text{OH})_3$  were actually obtained, what was the percent yield?



4. (3 pts.) Given the reaction:



- If 9.75 grams of  $\text{FeCl}_3$  react with excess  $\text{NH}_4\text{OH}$ , what is the theoretical yield of ammonium chloride?
- If 8.953 grams of ammonium chloride were actually produced, what was the percent yield?

**Extra Credit (1 pt):**

Convert name to formula or visa versa ... from the list of names in unit 5