**Limiting reactant / Theoretical yield**

**Problems.**

**III**

1. **If 20.5 ml of a .15 M H2SO4 solution reacted with .89 g of Calcium, which reactant is limiting?**
2. **If 25 g of sodium hydroxide reacted with 5.7 L of chlorine gas, what is the theoretical yield of Hydroxide?**
3. **If the actual yield from the reaction in # 2 was .533 g of NaCl, what would the percent yield be?**
4. **If 250 ml of a 1.6 M solution of Aluminum Sulfate reacted with 15.8 g of Ammonium Nitrate to actually produce 15.56 g of aluminum nitrate what is the percent yield?**
5. **If 1.2 g of sodium reacted with 55 ml of 2.5 M potassium sulfide solution, which reactant is in excess (opposite of limiting)?**
6. **If 3.75 g of Mg(OH)2 reacted with 5.7 L of Fluorine gas to actually produce .0025 g of magnesium fluoride, what is the percent yield?**
7. **If 2.5 x 1020 molecules of Indium Acetate reacted with 7.5 x 1025 formula units of strontium chloride, which reactant was limiting?**