**SI WORKSHEET 7**

1. Ca(OH)2 + HCl 🡪 H2O + CaCl2. If there are 100 g of each reactant, how many water molecules can be produced?
2. C6H12O6 + C2H5OH 🡪 C8H16O6 + H2O
   1. If there are 20 ml of ethanol and 50 grams of glucose, how many water molecules can you produce? (density of ethanol =0.789 g/ml)
3. CaC2O4 + Na3PO4 🡪
   1. A student performs this reaction with 75 grams of Calcium oxalate and 125 g of Sodium phosphate and produces 45 g of the calcium-containing product and the student determines the percent yield to be 65%. Is the student correct? If not, what should the student have received for percent yield?
4. What is an electrolyte? What is the difference between strong and weak electrolytes? (**Challenge yourselves to see which of the compounds in questions 2-4 would be strong or weak electrolytes**)
5. What do the terms solute, solvent, and solubility refer to?