Chapters 6 & 7: SI Session for Chem 1407

Chapter 6:

1. Define and provide an example for the following terminology:

Term	Definition	example
Mole		
Molar Mass		
Mass		
Percent		
Composition		
Empirical		
Formulas		
Molecular		
Formulas:		

2. Determine the percent mass composition of Hydrogen in the compound H3PO4.

3. How many grams of S are in 3 moles of SO4?

4. What are the rules used to calculate Empirical formulas? a.

c.

b.

d.

5. Determine the empirical formula for a compound with 40% C, 20% H, and 20% N.

6. Determine the molecular formula for H3O2.

Chapter 7:

- 1. What are the five indicators of a chemical reaction?
 - α.
 - b.
 - c.
 - d.
 - e.
- 2. Label the reactant and products in the following chemical equation.

C+O2 ----> CO2

3. What is a catalyst?

4. In an electrolyte solution, what do ionic compounds separate into?

α.