Name Period Date

*Unit 7: Part 2 🡪 Using Chemical Formulas*

1. **Percent Composition**

**The term Percentage Composition refers to the number of parts per hundred of each element in a compound. This can be determined in 2 ways – From…**

**A. A Known Chemical Formula B. Laboratory Data – Mass Measurements**



**Formula 🡪**

**Part A – Known Chemical Formula Practice Problems**

1. Cu2S
2. FeO
3. Ammonium Sulfate
4. Copper(II) hydroxide
5. Lithium Phosphide

**Part B – Laboratory Data**

1. Analysis of a compound shows that it consists of 43.40 g of copper and 10.95 g of sulfur. What is the percentage composition of this compound?
2. A sample of the organic compound benzene is analyzed and found to consist of 13.74 g carbon and 1.15 g of hydrogen. What is the percentage composition of benzene?

**Part C Practice:Show all work below**

1. Sulfuric Acid
2. Barium hydroxide
3. Potassium phosphate
4. Analysis of an unknown compound shows that it consists of 21.8 g of oxygen, 4.09 g of aluminum, and 6.36 g of nitrogen. What is the percentage composition of this compound?
5. Analysis of an ore of calcium shows that it contains 13.61 g of calcium and 21.77 g of oxygen in a sample with a mass of 46.28. What is the percent composition of this compound?