

Name _____

Percent Composition

Solve the following percent composition problems:

- 1) Find the percentage composition of a compound that has 2.665g of carbon, 0.785g Hydrogen, and 1.55g nitrogen in a 5.00 gram sample.
- 2) A sample of an unknown compound has a mass of 1.852g. What is the mass of each element in the compound if the percent composition is 44.99 percent carbon, 7.570 percent hydrogen, and 47.45 percent fluorine?
- 3) Find the percentage composition of a compound that has 1.12g nitrogen, 0.320g hydrogen, 0.48g carbon, and 1.92g oxygen in a 3.84g sample.
- 4) What is the percent composition of each element in the compound K_2SO_4 ?
- 5) What is the mass of each element contained in a 2.62g sample of magnesium phosphate?
- 6) What is the mass of each element contained in a 6.33g sample of calcium hydroxide?
- 7) What is the percent composition of water in copper(II)sulfate pentahydrate?
- 8) Using percent composition, determine how many atoms of oxygen are present in a 8.93g sample of sodium bicarbonate.
- 9) Using percent composition, determine how many grams of glucose you have if there are 4.23×10^{24} atoms of carbon in it.