Name	
<b>Percent Composition</b>	

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.

53.3%C 15.7%H 31.0%N

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?

0.8332gC 0.1402gH 0.8788gF

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.

29.17%N 8.33%H 12.50%C 50.0%O

4) What is the percent composition of each element in the compound  $K_2SO_4$ ?

44.88%K 18.40%S 36.72%O

5) What is the mass of each element contained in a 2.62g sample of magnesium phosphate?

0.727 gMg 0.617 gP 1.276 gO

6) What is the mass of each element contained in a 6.33g sample of calcium hydroxide?

3.42gCa 0.173gH 2.73gO

7) What is the percent composition of water in copper(II)sulfate pentahydrate?

36.1% H<sub>2</sub>O

8) Using percent composition, determine how many atoms of oxygen are present in a 8.93g sample of sodium bicarbonate.

1.92x10<sup>23</sup>atoms O

9) Using percent composition, determine how many grams of glucose you have if there are  $4.23 \times 10^{24}$  atoms of carbon in it.

211g C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>