

**Percent Composition II**

Name \_\_\_\_\_ Period \_\_\_\_\_

Answer the following questions related to the gram formula mass and the percent composition of the element in the compounds.

1. Calculate the percent composition of  $K_2O$ . (Show the % O and the %K.)
2. Find the percent composition of  $Sr_3P_2$ . (Show the % Sr and the %P.)
3. Find the percent composition of sodium hydroxide. (Show the % Na, %O and the %H.) (*Write the formula first.*)
4. Find the percent composition of glucose,  $C_6H_{12}O_6$ . (Show the % C, %H and the %O.)
5. What is the percentage of copper in a compound called copper (II) nitrate? (*Write the formula first.*)
6. Determine the percentage of hydrogen in a compound composed of aluminum and the hydroxide ion. (*Write the formula first.*)

7. What is the percentage of carbon in carbon dioxide ( $\text{CO}_2$ )?
8. If you have a 25 gram sample of carbon dioxide ( $\text{CO}_2$ ), how many grams of that is carbon?
9. What is the percentage of sodium in sodium chloride ( $\text{NaCl}$ )?
10. How many grams of sodium are in 75.0 g of  $\text{NaCl}$ ?
11. What is the percentage of oxygen in aluminum phosphate ( $\text{AlPO}_4$ )?
12. How many grams of oxygen can be obtained from 25.00 grams of aluminum phosphate?
13. What is the percentage of silver in silver (II) nitrate ( $\text{Ag}(\text{NO}_3)_2$ )?
14. How many grams of silver can be recovered from 125.0 grams of silver (II) nitrate?
15. What is the percentage of gold in  $\text{AuCl}_3$ ?
16. If you have 35.0 grams of  $\text{AuCl}_3$ , how much gold can be recovered?