

Multiple Choice – Circle the best answer.

1. What is the molar mass of aluminum chloride?
 - a. 63.5 g/mol
 - b. 133.5 g/mol
 - c. 116.5 g/mol
2. The abbreviation used to represent a gas in a chemical equation is _____ ?
 - a. g
 - b. aq
 - c. ↑
 - d. both a and c
3. What is the percentage of aluminum in AlCl_3 ?
 - a. 20.2 %
 - b. 43.2 %
 - c. 79.8 %
 - d. 56.8 %
4. Which of the following would be considered an empirical formula?
 - a. C_2H_4
 - b. Sn_2O_2
 - c. C_3H_8
 - d. C_2H_8
5. Which of the following would be the empirical formula for sugar, $\text{C}_6\text{H}_{12}\text{O}_6$?
 - a. $\text{C}_6\text{H}_{12}\text{O}_6$
 - b. CHO
 - c. CH_2O
 - d. C_2HO_2
6. A student works a problem and finds that a compound has 0.074 moles of carbon and 0.148 moles of oxygen. What is the empirical formula of the compound?
 - a. CO
 - b. C_2O
 - c. CO_2
 - d. C_2O_2
7. What is the empirical formula for a compound that is 18.7 % Li, 16.3 % C, and 65.0 % O?:
 - a. LiCO
 - b. Li_2CO_3
 - c. LiCO_3