

CHAPTER 9 REVIEW

Stoichiometry**SECTION 1****SHORT ANSWER** Answer the following questions in the space provided.

1. _____ The coefficients in a chemical equation represent the
 - (a) masses in grams of all reactants and products.
 - (b) relative number of moles of reactants and products.
 - (c) number of atoms of each element in each compound in a reaction.
 - (d) number of valence electrons involved in a reaction.
2. _____ Which of the following would not be studied within the topic of stoichiometry?
 - (a) the mole ratio of Al to Cl in the compound aluminum chloride
 - (b) the mass of carbon produced when a known mass of sucrose decomposes
 - (c) the number of moles of hydrogen that will react with a known quantity of oxygen
 - (d) the amount of energy required to break the ionic bonds in CaF_2
3. _____ A balanced chemical equation allows you to determine the
 - (a) mole ratio of any two substances in the reaction.
 - (b) energy released in the reaction.
 - (c) electron configuration of all elements in the reaction.
 - (d) reaction mechanism involved in the reaction.
4. _____ The relative number of moles of hydrogen to moles of oxygen that react to form water represents a(n)
 - (a) reaction sequence.
 - (b) bond energy.
 - (c) mole ratio.
 - (d) element proportion.
5. Given the reaction represented by the following unbalanced equation:
 $\text{N}_2\text{O}(\text{g}) + \text{O}_2(\text{g}) \rightarrow \text{NO}_2(\text{g})$
 - a. Balance the equation.

- | | |
|-------|--|
| _____ | b. What is the mole ratio of NO_2 to O_2 ? |
| _____ | c. If 20.0 mol of NO_2 form, how many moles of O_2 must have been consumed? |
| _____ | d. Twice as many moles of NO_2 form as moles of N_2O are consumed. True or False? |
| _____ | e. Twice as many grams of NO_2 form as grams of N_2O are consumed. True or False? |

Chapter 9 Reading Guide Stoichiometry

Clyde Metz



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