

## CHAPTER 9 REVIEW

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

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

\_\_\_\_\_

b. What is the mole ratio of  $\text{NO}_2$  to  $\text{O}_2$ ?

\_\_\_\_\_

c. If 20.0 mol of  $\text{NO}_2$  form, how many moles of  $\text{O}_2$  must have been consumed?

\_\_\_\_\_

d. Twice as many moles of  $\text{NO}_2$  form as moles of  $\text{N}_2\text{O}$  are consumed. True or False?

\_\_\_\_\_

e. Twice as many grams of  $\text{NO}_2$  form as grams of  $\text{N}_2\text{O}$  are consumed. True or False?

# Chapter 9 Stoichiometry Answers

**Malone**



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