

CHAPTER **11** STUDY GUIDE

# Stoichiometry

## Section 11.1 What is stoichiometry?

In your textbook, read about stoichiometry and the balanced equation.

For each statement below, write *true* or *false*.

- \_\_\_\_\_ 1. The study of the quantitative relationships between the amounts of reactants used and the amounts of products formed by a chemical reaction is called stoichiometry.
- \_\_\_\_\_ 2. Stoichiometry is based on the law of conservation of mass.
- \_\_\_\_\_ 3. In any chemical reaction, the mass of the products is less than the mass of the reactants.
- \_\_\_\_\_ 4. The coefficients in a chemical equation represent not only the number of individual particles but also the number of moles of particles.
- \_\_\_\_\_ 5. The mass of each reactant and product is related to its coefficient in the balanced chemical equation for the reaction by its molar mass.

Complete the table below, using information represented in the chemical equation for the combustion of methanol, an alcohol.

methanol + oxygen  $\rightarrow$  carbon dioxide + water



| Substance         | Molar Mass (g/mol) | Number of Molecules | Number of Moles (mol) | Mass (g) |
|-------------------|--------------------|---------------------|-----------------------|----------|
| 6. Methanol       | 32.05              |                     |                       |          |
| 7. Oxygen gas     | 32.00              |                     |                       |          |
| 8. Carbon dioxide | 44.01              |                     |                       |          |
| 9. Water          | 18.02              |                     |                       |          |

10. What are the reactants? \_\_\_\_\_
11. What are the products? \_\_\_\_\_
12. What is the total mass of the reactants? \_\_\_\_\_
13. What is the total mass of the products? \_\_\_\_\_
14. How do the total masses of the reactants and products compare? \_\_\_\_\_

# Chemistry Solutions Study Guide Answers

**Susan McMurry**



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## Enjoying the Tune of Phrase: An Emotional Symphony within **Chemistry Solutions Study Guide Answers**

In a world taken by screens and the ceaseless chatter of quick connection, the melodic elegance and psychological symphony developed by the prepared term often disappear in to the backdrop, eclipsed by the persistent noise and disruptions that permeate our lives. However, set within the pages of **Chemistry Solutions Study Guide Answers** a stunning literary prize overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this captivating masterpiece conducts readers on an emotional journey, well unraveling the concealed melodies and profound affect resonating within each cautiously crafted phrase. Within the depths of the poignant review, we can explore the book is key harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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