

Stoichiometry Review: Test Review



1. What is stoichiometry? [] Study of quantitative relationships in chemical reaction.
2. On which law is stoichiometry based? [] Law of conservation of mass.
3. According to the law of conservation of mass, the mass of the [] ^{reactants} must [equal] the mass of the ^{products}.
4. What is a mole ratio? [] fractions/ratio comparing two substances.
5. Given the following balanced equation: $2\text{Al} + 3\text{Br}_2 \rightarrow 2\text{AlBr}_3$, determine the mole ratio used for calculating moles of aluminum bromide from moles of bromine. [] $2\text{mol AlBr}_3 / 3\text{mol Br}_2$
6. What must you have before beginning any stoichiometric problem? [] balanced equation
7. What is a limiting reactant? [] runs out
8. What is an excess reactant? [] left over
9. A booklet is prepared from 2 covers, 3 staples, and 20 pages. Assume we have 60 covers, 120 staples, and 400 pages.
 - a. What is the largest number of complete booklets that can be made? [20]
 - b. Which is the "limiting reactant" in this system? [pages]
10. How many moles of lithium chloride will be formed by the reaction of chlorine with 0.046 mol of lithium bromide in the following reaction?
 $[2] \text{LiBr} + [1] \text{Cl}_2 \rightarrow [2] \text{LiCl} + [1] \text{Br}_2$

$$\frac{0.046 \text{ mol LiBr}}{2 \text{ mol LiBr}} \times \frac{2 \text{ mol LiCl}}{2 \text{ mol LiBr}} = 0.046 \text{ mol LiCl}$$

11. Hydrogen peroxide breaks down, releasing oxygen, in the following reaction. What mass of oxygen is produced when 1.840 mol of H_2O_2 decomposes?

$$\frac{1.840 \text{ mol H}_2\text{O}_2}{2 \text{ mol H}_2\text{O}_2} \times \frac{1 \text{ mol O}_2}{2 \text{ mol H}_2\text{O}_2} \times \frac{32.09 \text{ g O}_2}{1 \text{ mol O}_2} = 29.44 \text{ g O}_2$$

12. Hydrogen is generated by passing hot steam over iron, which oxidizes to form Fe_2O_3 , in the following equation. If 625 g of Fe_2O_3 is produced in the reaction, how many moles of hydrogen are produced at the same time?

Review Stoichiometry Answer Key Mixed Review

Clemens Wendtner



Review Stoichiometry Answer Key Mixed Review:

The Enigmatic Realm of **Review Stoichiometry Answer Key Mixed Review**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Review Stoichiometry Answer Key Mixed Review** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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