

Name: _____ (Last, First, Middle) Date: _____

Student Exploration: Limiting Reactants

Background: Chemical equation, chemical formula, chemical reaction, coefficient, limiting reactant, molar mass, product, reactant, subscript

Prior Knowledge: Molecules (Can these help? Call using the Gizmo.)

Imagine you are a pizza baker preparing pizzas each day. Assume that you always start with 100 pizzas at 8:00. At that time, you start putting out packages of eight pizzas and three bags of 10 toppings.

1. How many different pizzas can you make? _____ (8)
2. Which ingredient limits the number of pizzas you can make? _____ (Toppings)
3. Which ingredient will run out first? _____ (Toppings)

Gizmo Warm-up

Look at the molecules that are put together to make water. These molecules are combined during a **chemical reaction** to produce new substances. The substances that enter a reaction are called **reactants**. The new substances are **products**.

Sometimes there is not enough of one of the reactants to make as much product as you want. This is called the **limiting reactant**. Sometimes limiting molecules come in "packs" that **limit** the amount of product that can be formed.



Though water has H_2O , **not** H_2 , molecules, H_2 is a reactant. But what if we have H_2 , O_2 , and H_2O ? Is **hydrogen** the limiting reactant? The number of molecules is **important**.

1. How the following combinations of H_2 molecules and O_2 molecules can be made?
 - a. How many hydrogen molecules (H_2) are there? _____ (4) Hydrogen atoms? _____ (8)
 - b. How many oxygen molecules (O_2) are there? _____ (2) Oxygen atoms? _____ (4)
2. How many H_2O molecules can you make with all these atoms? How many molecules are left? _____ (4)
3. Which **limiting**? _____ (2) How many H_2O molecules actually do form? _____ (4)

Limiting Reactant Gizmo Answers

ML Morrison

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Limiting Reactant Gizmo Answers:

Limiting Reactant Gizmo Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Limiting Reactant Gizmo Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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