### Student Exploration: Limiting Reactants

Vocabulary: chemical equation, chemical formula, chemical reaction, coefficient, limitingreactant, molecule, product, reactant, subscript

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
Imagine you and your friends are making hot dogs. A complete hot dog consists of a wiener and a bun. At the store, you buy four packages of eight wieners and three bags of 10 buns.

- How many total hot dogs can you make? \_\_\_\_\_you can make 30 hotdogs with single bun and wieners \_\_\_\_\_
- Which ingredient limited the number of hot dogs you could make? the buns having 30 limited the number of hot dog i can make \_\_\_\_\_
- Which ingredient will you have leftovers of? i would have leftover of the wieners remaining 2 more.

#### Gizmo Warm-up

Just as ingredients can be put together to make a new food, substances can combine during a **chemical reaction** to produce new substances. The substances that undergo change are called **reactants**. The new substances are **products**.

Sometimes during a chemical reaction, one type of reactant will be used up before the other reactants. This reactant is the **limiting reactant**. Using the *Limiting Reactants* Gizmo, you can determine which reactant is limiting in various scenarios.



To begin, make sure  $H_2 + O_2$  becomes H2O. The small "2" in  $H_2$ ,  $O_2$ , and  $H_2O$  is a subscript. Subscripts represent the number of atoms in a **molecule**.

- Use the sliders to set the number of O<sub>2</sub> molecules and H<sub>2</sub> molecules to two.
  - A. How many hydrogen molecules (H<sub>2</sub>) are there?\_\_\_\_1\_Hydrogen atoms?
  - B. How many oxygen molecules (O2) are there?\_\_\_1\_\_Oxygen atoms?\_\_2\_\_
- How many H₂O molecules do you think will form when these four molecules react?



# **Answers For Student Limiting Reactants**

**Georgios Tsaparlis** 

#### **Answers For Student Limiting Reactants:**

Student Solutions Manual Darrell Ebbing, 2005-03-17 Provides solutions to odd numbered Practice Problems General Problems and Cumulative Skills Problems plus answers to Review Questions Multiple Solution Methods for Teaching Science in the Classroom Stephen DeMeo, 2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving **8 Practice Tests for the ACT** Kaplan Test Prep,2017-03-07 Includes 1 700 practice questions Cover

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Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a Survival Handbook for the New Chemistry Instructor Diane M. Bunce, Cinzia M. foreword by George Bodner Muzzi, 2004 This book provides an overview of the issues facing new chemistry faculty in preparation for teaching Serving as a reference to answer specific questions new chemistry faculty encounter this book is comparable to sitting down with a colleague in the department and talking through some ideas or gaining some pointers on how to avoid common pitfalls It is the one single place new chemistry faculty can go to find practical information on how to teach and how to prepare for teaching their first course Chapters are written both by established experts in the field and by new professors within their first couple of years of teaching Multiple Representations in Chemical Education John K. Gilbert, David Treagust, 2009-02-28 Chemistry seeks to provide qualitative and quantitative explanations for the observed behaviour of

elements and their compounds Doing so involves making use of three types of representation the macro the empirical properties of substances the sub micro the natures of the entities giving rise to those properties and the symbolic the number of entities involved in any changes that take place Although understanding this triplet relationship is a key aspect of chemical education there is considerable evidence that students find great difficulty in achieving mastery of the ideas involved In bringing together the work of leading chemistry educators who are researching the triplet relationship at the secondary and university levels the book discusses the learning involved the problems that students encounter and successful approaches to teaching Based on the reported research the editors argue for a coherent model for understanding the triplet relationship in chemical education 

Teaching Together, Learning Together Wolff-Michael Roth, Kenneth George Tobin, 2005

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