## **Limiting Reactant**

For the following reactions, find the following:

- a. Which of the reactants is the limiting reactant?
- b. What is the maximum amount of each product that can be formed?
- How much of the excess reactant is left over after the reaction is complete?
   SEL NEXT DOOK FOR COLCULATIONS!
- Consider the following reaction:

3 NH4NO3 + Na3PO4 → (NH4)3PO4 + 3 NaNO3

Answer the questions above, assuming we started with 30.0 grams of ammonium nitrate b and 50.0 grams of sodium phosphate.

30.09 NH4NO3 | 14001 NH4NO3 | 14001 (1414)3 PO4 | 149.129 (NH4)3 PO4 | 18.109 | 180.00 gNH4NO3 | 3 mol NH4NO3 | 14001 (149.129 (NH4)3 PO4 | 1414)3 PO4 | 1401 (149.129 (NH4)3 PO4 | 1414)3 PO4 | 1414 (149.129 (NH4)3 PO4 | 1414 (149.129 (

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3 CaCO<sub>3</sub> + 2 FePO<sub>4</sub> → Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> + Fe<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>

Answer the questions at the top of this sheet, assuming we start with 100.0 graips of calcium carbonate and 45.0 grams of iron (II) phosphate.

100.0 g (a CO<sub>3</sub> | mol CaCO<sub>5</sub> | mol

# **Limiting Reactant Review Sheet Key**

Shasha Hu

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Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement The Practice of Chemistry Study Guide & Solutions Manual Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises **CHEMISTRY HANDBOOK & STUDY GUIDE** Gr11-12 NE Kevin Smith, 2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text Introduction to General, Organic, and Biochemistry Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career **Study Guide for Introductory Chemistry** Iris Stovall,1990 Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced. The result is that readers see the strong connections that exist between these three branches of chemistry Foundations of College Chemistry, Alternate Morris Hein, Susan Arena, 2010-01-26 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years this book has helped them master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis

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**Chemistry** Martin Silberberg, Libby Weberg, 2005-01-06 McGraw-Hill Education 500 Review Ouestions for the MCAT: General Chemistry Mary Millhollon, Richard H. Langley, 2015-07-10 500 ways to pass the General Chemistry section of the new MCAT Intensive practice detailed answer explanations the best way to sharpen skills and prepare for the exam In anticipation of the fully revised 2015 MCAT 500 Review Questions for the MCAT General Chemistry has been updated to comprehensively cover the chemistry portion of the Chemical and Physical Foundations of Biological Systems section This book provides the problem solving practice you need to take the exam with confidence 500 questions organized by subject Follows the new MCAT format Complete explanations to every question given in the answer key **Student Study Guide** Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble, 1994 Ess Chem Probs Study Guide David Margolese, David W. Oxtoby, 2004-04 Study Guide to accompany Basic Concepts of Chemistry, 7th Edition Leo J. Malone, 2003-02-20 Work more effectively and gauge your progress along the way This Study Guide that is designed to accompany Malone's Chemistry 7th Edition includes chapter summaries new terms self tests answers to self tests and solutions to selected problems This easy to read introduction presents chemistry as a living relevant science Chemistry 7th Edition encourages critical thinking and helps readers overcome the math difficulties that often prevent them from developing a full understanding of the subject This new seventh edition builds on its core strengths of pedagogy driving the connections between ideas mathematics in context not just an appendix and an extensive problem solving emphasis with an updated design and more molecular art In addition the seventh edition expands its applications and online options One of the briefest books in the market it still provides sufficient depth for the basic concepts of chemistry 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 Prentice Hall Chemistry ,2000 **Modern Chemistry** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001

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