

Limiting Reagent & Percent Yield Practice Worksheet

1. When copper (II) chloride reacts with sodium nitrate, copper (II) nitrate and sodium chloride are formed.

a. Write the balanced equation for the reaction given above:



- b. If 15 grams of copper (II) chloride react with 20 grams of sodium nitrate, how much sodium chloride can be formed?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.362 \text{ g CuCl}_2} \times \frac{2 \text{ mol NaCl}}{1 \text{ mol CuCl}_2} \times \frac{58.443 \text{ g NaCl}}{1 \text{ mol NaCl}} = 13 \text{ g NaCl}$$

$$20 \text{ g NaNO}_3 \times \frac{1 \text{ mol NaNO}_3}{84.997 \text{ g NaNO}_3} \times \frac{2 \text{ mol NaCl}}{2 \text{ mol NaNO}_3} \times \frac{58.443 \text{ g NaCl}}{1 \text{ mol NaCl}} = 13.8 \text{ g NaCl}$$

Only 13 g can be formed

- c. What is the limiting reagent for the reaction in #2? **copper (II) chloride**

- d. How many grams of copper (II) nitrate is formed?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.452 \text{ g CuCl}_2} \times \frac{1 \text{ mol Cu(NO}_3)_2}{1 \text{ mol CuCl}_2} \times \frac{187.467 \text{ g Cu(NO}_3)_2}{1 \text{ mol Cu(NO}_3)_2} = 20.9 \text{ g Cu(NO}_3)_2$$

- e. How much of the excess reagent is left over in this reaction?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.452 \text{ g CuCl}_2} \times \frac{2 \text{ mol NaNO}_3}{1 \text{ mol CuCl}_2} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 19 \text{ g NaNO}_3$$

$$20 \text{ g NaNO}_3 - 19 \text{ g NaNO}_3 = 1 \text{ g NaNO}_3$$

- f. If 11.3 grams of sodium chloride are formed in the reaction described in problem #2, what is the percent yield of this reaction?

$$\text{Percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100 \text{ percent}$$

$$11.3/13.0 \times 100\% = 86.9\%$$

2. When lead (II) nitrate reacts with sodium iodide, sodium nitrate and lead (II) iodide are formed.

a. Balance the following equation:



- b. If I start with 25.0 grams of lead (II) nitrate and 15.0 grams of sodium iodide, how many grams of sodium nitrate can be formed?

$$25.0 \text{ g Pb(NO}_3)_2 \times \frac{1 \text{ mol Pb(NO}_3)_2}{331.214 \text{ g Pb(NO}_3)_2} \times \frac{2 \text{ mol NaNO}_3}{1 \text{ mol Pb(NO}_3)_2} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 12.8 \text{ g NaNO}_3$$

$$15.0 \text{ g NaI} \times \frac{1 \text{ mol NaI}}{149.89 \text{ g NaI}} \times \frac{2 \text{ mol NaNO}_3}{2 \text{ mol NaI}} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 8.51 \text{ g NaNO}_3$$

8.51 g NaNO₃ can be made

Limiting Reactants And Percent Yield Answer Key

Kenneth L. Henold, Frank Walmsley



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Chemical Principles, Properties, and Reactions Kenneth L. Henold, Frank Walmsley, 1984 **General Chemistry** Ralph

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carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students SourceBook Version 2.1 ,1998 **Practice Makes Perfect Chemistry** Marian DeWane,Heather Hattori,2011-05-10 Don't be confused by chemistry Master this science with practice practice practice Practice Makes Perfect chemistry is a comprehensive guide and workbook that covers all the basics of chemistry that you need to understand this subject Each chapter focuses on one major topic with thorough explanations and many illustrative examples so you can learn at your own pace and really absorb the information You get to apply your knowledge and practice what you've learned through a variety of exercises with an answer key for instant feedback Offering a winning formula for getting a handle on science right away Practice Makes Perfect chemistry is your ultimate resource for building a solid understanding of chemistry fundamentals **Must Know High School Chemistry** Mary Millhollon,Richard H. Langley,2019-06-28 A UNIQUE NEW APPROACH THAT'S LIKE A LIGHTNING BOLT TO THE BRAIN You know that moment when you feel as though a lightning bolt has hit you because you finally get something That's how this book will make you react We hope Each chapter makes sure that what you really need to know is clear right off the bat and sees to it that you build on this knowledge Where other books ask you to memorize stuff we're going to show you the must know ideas that will guide you toward success in chemistry You will start each chapter learning what the must know ideas behind a chemistry subject are and these concepts will help you solve the chemistry problems that you find in your classwork and on exams Dive into this book and find 250 practice questions that mirror what you will find in your classwork and on exams A bonus app with flashcards that will reinforce what you've learned Extensive examples that drive home essential concepts An easy access setup that allows you to jump in and out of subjects Chemistry topics aligned to national and state education standards Special help for more challenging chemistry subjects including the mole concept stoichiometry and solutions We're confident that the must know ideas in this book will have you up and solving chemistry problems in no time or at least in a reasonable amount of time **Must Know High School Chemistry, Second Edition** Mary

Millhollon, Richard H. Langley, 2022-06-12 A unique and effective way to learn Chemistry updated with the latest instruction and review Must Know High School Chemistry provides a fresh approach to learning As part of our Must Know series this new edition makes sure what you really need to know is clear up front Rather than starting with goals to be met chapters begin by telling you the most important concepts about the topic at hand and then show you exactly how these concepts help you accomplish your goals Written by expert chemistry educators Must Know High School Chemistry Second Edition provides updated lesson content and useful examples to help clarify each topic Every chapter closes with reinforcing exercises to get you the practice you need to gain confidence New features to this edition focus on extra support and helping you avoid common mistakes In the end you get everything you need to build your chemistry skills quickly and painlessly Features More than 350 practice questions that parallel what you will find in your classwork and on exams Bonus app that includes 100 flashcards to reinforce concepts Extra Help and Easy Mistake features put the emphasis on how to improve and what pitfalls to avoid Chemistry topics aligned to national and state educational standards Practical examples throughout and an answer key with explanations make sure you understand the topics Conversational writing style and informative IRL In Real Life and BTW By the Way sidebars A special section for teachers with tips and strategies on teaching the material and content specific links and resources

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