

Percent Yield Practice

1. Calculate the theoretical yield of calcium oxide if 24.8 g of calcium carbonate decomposes. Calculate the percent yield if you got 13.1 g in the laboratory.



$$\frac{24.8 \text{ g CaCO}_3}{1} \cdot \frac{1 \text{ mol CaCO}_3}{100.09 \text{ g CaCO}_3} \cdot \frac{1 \text{ mol CaO}}{1 \text{ mol CaCO}_3} \cdot \frac{56.08 \text{ g CaO}}{1 \text{ mol CaO}} = 13.9 \text{ g CaO} \quad \text{TY}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100 = \frac{13.1}{13.9} \cdot 100 = \boxed{94.24\%} \Rightarrow \boxed{94.2\%}$$

2. What is the percent yield if you experimentally produce 3.65 g of copper when 1.87 g of aluminum reacts with 9.65 g copper (II) sulfate?



$$\frac{1.87 \text{ g Al}}{1} \cdot \frac{1 \text{ mol Al}}{26.98 \text{ g Al}} \cdot \frac{3 \text{ mol Cu}}{2 \text{ mol Al}} \cdot \frac{159.62 \text{ g CuSO}_4}{1 \text{ mol CuSO}_4} = 16.6 \text{ g CuSO}_4 \quad \text{Used}$$

$$\frac{9.65 \text{ g CuSO}_4}{159.62 \text{ g CuSO}_4} \cdot \frac{1 \text{ mol CuSO}_4}{1 \text{ mol CuSO}_4} \cdot \frac{3 \text{ mol Cu}}{2 \text{ mol CuSO}_4} \cdot \frac{63.55 \text{ g Cu}}{1 \text{ mol Cu}} = 3.84 \text{ g Cu}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100 = \frac{3.65}{3.84} \cdot 100 = \boxed{95.05\%} \quad \text{TY} \rightarrow \boxed{95.1\%}$$

3. If you start with 5.0 g of C_3H_8 and react it with oxygen, what is the theoretical yield of water? If you have a percent yield of 75.0%, What is the actual yield of water?



$$\frac{5.0 \text{ g C}_3\text{H}_8}{44.11 \text{ g C}_3\text{H}_8} \cdot \frac{1 \text{ mol C}_3\text{H}_8}{1 \text{ mol C}_3\text{H}_8} \cdot \frac{4 \text{ mol H}_2\text{O}}{1 \text{ mol C}_3\text{H}_8} \cdot \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 8.2 \text{ g H}_2\text{O} \quad \text{TY}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100$$

$$\frac{\text{PY} \cdot \text{TY}}{100} = \text{AY} = \frac{75 \cdot 8.2}{100} = \boxed{6.2 \text{ g H}_2\text{O}} \quad \text{AY}$$

4. What is the theoretical yield of sodium oxide if you start with 20 g of calcium oxide?



$$\frac{20 \text{ g CaO}}{56.08 \text{ g CaO}} \cdot \frac{1 \text{ mol CaO}}{1 \text{ mol CaO}} \cdot \frac{1 \text{ mol Na}_2\text{O}}{1 \text{ mol CaO}} \cdot \frac{61.98 \text{ g Na}_2\text{O}}{1 \text{ mol Na}_2\text{O}} = \boxed{20 \text{ g Na}_2\text{O}}$$

Percent Yield Guided Problems And Answers

Uri Levine



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Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 *General Chemistry, Reactions First* Kevin Revell, 2024-12-04 Revell's General Chemistry empowers students to grasp essential topics and concepts with more ease Using a friendly approach the text uses metaphors and relatable examples to demystify even the most challenging subjects in general chemistry **Guide to Food Safety and Quality during Transportation** John M. Ryan, 2017-05-19 Guide to Food Safety and Quality during Transportation Controls Standards and Practice Second Edition provides a solid foundation outlining logistics and delivery control solutions to protect the food transportation industry Since its first publication the U S FDA has finalized a number of Food Safety Modernization Act rules designed to improve the protection of the public from adulterants known to cause illness and death Food shippers carriers and receivers throughout the world are impacted as import controls have tightened This book provides the information needed to comply with the Act's requirements and tactics on how to achieve safety in the food supply chain Filled with legal liability and practical solutions food transporters and buyers will be able to structure company wide business practices as part of their overall food safety and quality agendas For food safety and quality students the book provides much needed insight into a critical but overlooked aspect of the food safety and food quality spectrums This food transporter piece of the overall food safety and quality puzzle provides the linking mechanism needed to improve the supply chain communication and interdependence sought after by governmental and industry executives Includes important information on how to comply with the Food Safety Modernization Act Includes technological advances in sanitation testing and traceability and highlights cost effective solutions to enhance food safety Provides practical solutions to transportation problems including container sanitation temperature controls traceability adulteration and other food safety and quality issues Presents potential sources of adulteration both chemical and biological at producer level both domestic and foreign to reduce transporter liability Provides new and updated information including environmental monitoring statistical control systems supply chain management and more *General, Organic, and Biological Chemistry* Michael P. Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration Introductory Chemistry Michael P. Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of

ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting **Chemistry** John S. Phillips,Cheryl Wistrom,2000 **Mathematics Education for Sustainable Economic Growth and Job Creation** David Burghes,Jodie Hunter,2021-08-23 Mathematics Education for Sustainable Economic Growth and Job Creation considers the need for young employees to be capable and confident with transferable knowledge and skills in mathematics and statistics in order to support economic growth in developing countries in an increasingly digital age This book draws on differing international perspectives in relation to mathematics education for sustainable economic growth and job creation The contributors include education researchers and those involved in policymaking for both developing countries and beyond Within each chapter there is a reflection from the authors on their experiences in educational systems and policy development or research studies which contribute to sustainable economic growth in different countries As well as considerations of economies and job creation the scholarship delves further into developing a critically aware citizenship through mathematics education Extending current thinking about the role of mathematics education and educating students for future needs this book will be of great interest for academics researchers and postgraduate students in the field of mathematics education STEM education and sustainability education [Fall in Love with the Problem, Not the Solution](#) Uri Levine,2025-02-18 A Simon Schuster eBook Simon Schuster has a great book for every reader *TARGET MH-CET (MBA / MMS) 2022 - Past Papers (2007 - 2021) + 5 Mock Tests 13th Edition* Disha Experts, The Thoroughly Updated 13th edition of Target MH CET 2022 book covers Previous Solved Papers 2007 to 2021 and 5 Mock tests as per latest pattern The solution to each and every question has been provided The Past Papers will guide you in terms of understanding the Pattern Types of Questions their Level of Difficulty Thus in all there are 14 Past Papers as the MH CET paper was not held in 2013 5 Mock tests designed exactly as per the pattern of the 2021 MH CET exam Each Mock Test contains 200 questions on the 3 sections Section I Logical Abstract Reasoning 100 Section II Quantitative Aptitude 50 Section III Verbal Ability Reading Comprehension 50 The detailed solution to the questions are provided immediately after the tests A total of 3700 MCQs with explanation **Addison-Wesley Chemistry** Antony C. Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L. Waterman,Prentice-Hall Staff,2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link **Clinician's Guide to Research Methods in Family Therapy** Lee Williams,JoEllen Patterson,Todd M. Edwards,2018-03-21 A research methods text with a unique focus on evidence based practice with couples and families this book bridges the divide between research and clinical work The text offers comprehensive user friendly coverage of measurement and design issues and basic qualitative and quantitative methods Illustrating research concepts with clinically relevant examples and sample studies it teaches clear steps for evaluating

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