

# Percent Yield Practice

3 pages + 3-page Answer KEY + Periodic Table

Chemistry

## PERCENT YIELD

Show all work and circle or highlight your final answer.

$$\text{percent yield (\%)} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100$$

- 1 16.8 grams of sodium reacts with excess chlorine gas.



The theoretical yield of sodium chloride is 25.8 grams. The actual yield was 23.8 grams. Calculate the percent yield of sodium chloride.

Name \_\_\_\_\_

Date \_\_\_\_\_

- 2 Hydrogen gas ( $\text{H}_2$ ) reacts with oxygen gas ( $\text{O}_2$ ) to produce water ( $\text{H}_2\text{O}$ ). 5.8 grams of hydrogen reacts with excess oxygen gas.



What is the theoretical yield?

- 3 8.8 grams of carbon reacts with excess oxygen gas.



The theoretical yield of carbon dioxide is 25.8 g. Calculate the percent yield of carbon dioxide.

- 4 1.8 grams of zinc reacts with excess sulfur.



The theoretical yield of zinc sulfide is 7.5 grams. Calculate the percent yield of zinc sulfide.

- 5 The actual yield was 58.8 grams. Calculate the percent yield.

- 6 Magnesium ( $\text{Mg}$ ) reacts with hydrochloric acid ( $\text{HCl}$ ) to produce magnesium chloride ( $\text{MgCl}_2$ ) and hydrogen gas ( $\text{H}_2$ ). Calculate the theoretical yield.



What is the theoretical yield?

- 7 1.8 grams of phosphorus reacts with excess chlorine gas.



The theoretical yield of phosphorus trichloride is 10.8 grams. Calculate the percent yield of phosphorus trichloride.

Name \_\_\_\_\_

Date \_\_\_\_\_

- 8 Calcium carbonate ( $\text{CaCO}_3$ ) reacts with hydrochloric acid ( $\text{HCl}$ ) to produce calcium chloride ( $\text{CaCl}_2$ ), carbon dioxide ( $\text{CO}_2$ ), and water ( $\text{H}_2\text{O}$ ). 15.8 grams of calcium carbonate reacts with excess hydrochloric acid.



What is the theoretical yield of calcium chloride?

$$\begin{array}{r} 15.8 \text{ g CaCO}_3 \times \frac{1 \text{ mol CaCO}_3}{100.09 \text{ g CaCO}_3} \times \frac{1 \text{ mol CaCl}_2}{1 \text{ mol CaCO}_3} \times \frac{146.97 \text{ g CaCl}_2}{1 \text{ mol CaCl}_2} = 23.02 \text{ g CaCl}_2 \end{array}$$

$$\begin{array}{r} \text{Molar mass CaCl}_2 \\ \text{Ca} = 40.08 \\ \text{Cl} = 35.45 \\ 2 \times 35.45 = 70.90 \\ 40.08 + 70.90 = 110.98 \text{ g} \end{array}$$

9 15.8 g CaCO<sub>3</sub> × 1 mol CaCO<sub>3</sub> / 100.09 g CaCO<sub>3</sub> × 1 mol CaCl<sub>2</sub> / 1 mol CaCO<sub>3</sub> × 146.97 g CaCl<sub>2</sub> / 1 mol CaCl<sub>2</sub> = 23.02 g CaCl<sub>2</sub>

$$\begin{array}{r} \text{Molar mass CaCl}_2 \\ \text{Ca} = 40.08 \\ \text{Cl} = 35.45 \times 2 = 70.90 \\ 40.08 + 70.90 = 110.98 \text{ g} \end{array}$$

- 10 The actual yield was 23.8 grams. Calculate the percent yield of calcium chloride.

$$\text{percent yield (\%)} = \frac{23.8 \text{ g}}{23.02 \text{ g}} \times 100 = 103.34\% \text{ CaCl}_2$$

- 11 Potassium ( $\text{K}$ ) reacts with iodine ( $\text{I}_2$ ) to produce potassium iodide ( $\text{KI}$ ). 5.8 grams of potassium reacts with excess iodine.



What is the theoretical yield?

$$\begin{array}{r} 5.8 \text{ g K} \times \frac{1 \text{ mol K}}{39.10 \text{ g K}} \times \frac{2 \text{ mol KI}}{2 \text{ mol K}} \times \frac{166.10 \text{ g KI}}{1 \text{ mol KI}} = 15.02 \text{ g KI} \end{array}$$

$$\begin{array}{r} \text{Molar mass KI} \\ \text{K} = 39.10 \\ \text{I} = 126.90 \\ 39.10 + 126.90 = 166.00 \text{ g} \end{array}$$

%  
YIELD

ANSWER KEY  
INCLUDED

# Percent Yield Example Answer Key

**L Manion**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the L Manion text.

### **Percent Yield Example Answer Key:**

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**Getting Started in Security Analysis** Peter J. Klein,Brian R. Iammartino,2009-12-02 An updated look at security analysis and how to use it during tough financial times Due to the current economic climate individual investors are starting to take much more time and effort to really understand their investments They ve been investing on their own in record numbers but many have no idea how to handle the current financial crisis This accessible guide shows you how to take control of your investment decisions by mastering security analysis This fully updated Second Edition of Getting Started in Security Analysis covers everything you need to fully grasp the fundamentals of security analysis It focuses on the practical mechanics of such vital topics as fundamental analysis security valuation portfolio management real estate analysis and fixed income analysis Easy to follow instructions and case studies put the tools of this trade in perspective and show you how to incorporate them into your portfolio Along with dozens of examples you ll find special quiz sections that test your skills Focuses on key security analysis topics such as deciphering financial statements fixed income analysis fundamental analysis and security valuation If you want to make better investment decisions then look no further than the Second Edition of Getting Started in Security Analysis

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**Study Guide to Accompany Basics for Chemistry** Martha Mackin, 2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for

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**Basic Concepts of Chemistry** Leo J. Malone, Theodore O. Dolter, 2011-12-27 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter WileyPLUS sold separately from text

Physical Chemistry for JEE Advanced: Part 1, 3E (Free Sample) K. S. Verma, 2022-05-19 Physical Chemistry for JEE Advanced Part 1 a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of physical chemistry from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers

**MCAT General Chemistry Review 2022-2023**

Kaplan Test Prep, 2021-07-06 Kaplan's MCAT General Chemistry Review 2022 2023 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined Prepping for the MCAT is a true challenge Kaplan can be your partner along the way offering guidance on where to focus your efforts and how to organize your review This book has been updated to match the AAMC's guidelines precisely no more worrying about whether your MCAT review is comprehensive The Most Practice More than 350 questions in the book and access to even more online more practice than any other MCAT general chemistry book on the market The Best Practice Comprehensive general chemistry subject review is written by top rated award winning Kaplan instructors Full color 3 D illustrations from Scientific American charts graphs and diagrams help turn even the most complex science into easy to visualize concepts All material is vetted by editors with advanced science degrees and by a medical doctor Online resources including a full length practice test help you practice in the same computer based format you'll see on Test Day Expert Guidance High yield badges throughout the book identify the top 100 topics most tested by the AAMC We know the test The Kaplan MCAT team has spent years studying every MCAT related document available Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test

**Naval Research Reviews**, 1984 *Chemistry*<sup>3</sup> Andrew Burrows, Andrew Parsons, Gwen Pilling, Gareth Price, 2013-03-21 New to this Edition

**Handbook on Material and Energy Balance Calculations in Material Processing** Arthur E. Morris, Gordon Geiger, H. Alan Fine, 2012-01-03 Lately there has been a renewed push to minimize the waste of materials and energy that accompany the production and processing of various materials This third edition of this reference emphasizes the fundamental principles of the conservation of mass and energy and their consequences as they relate to materials and energy New to this edition are numerous worked examples illustrating conventional and novel problem solving techniques in applications such as semiconductor processing environmental engineering the production and processing of advanced and exotic materials for aerospace electronic and structural applications

**Industrial Statistics** Anand M. Joglekar, 2010-04-30 HELPS YOU FULLY LEVERAGE STATISTICAL METHODS TO IMPROVE INDUSTRIAL PERFORMANCE Industrial Statistics guides you through ten practical statistical methods that have broad applications in many different industries for enhancing research product design process design validation manufacturing and continuous improvement As you progress through the book you'll discover some valuable methods that are currently underutilized in industry as well as other methods that are often not used correctly With twenty five years of teaching and consulting experience author Anand Joglekar has helped a diverse group of companies reduce costs accelerate product development and improve operations through the effective implementation of statistical methods Based on his experience working with both clients and students Dr Joglekar focuses on real world problem solving For each statistical method the book Presents the most important underlying concepts clearly and succinctly Minimizes

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Chemical Principles, Properties, and Reactions Kenneth L. Henold, Frank Walmsley, 1984 **OCR Revise AS Chemistry** Mike Wooster, Helen Eccles, 2008 Written by experienced examiners this title offers tips on tricky areas and questions on each topic *Securities Industry Essentials Exam For Dummies with Online Practice Tests* Steven M. Rice, 2020-12-10 SLAY the SIE and score that top job That securities job of your dream looks pretty sweet but one little thing stands in your way the Securities Industry Essentials SIE exam The high fail rate for first and second time test takers can be intimidating but you can avoid it Pass the exam and get straight to work on the series level top off exams and your career All you need is this handy guide and the practice that comes with it Securities Industry Essentials Exam For Dummies has you covered in every conceivable way so you can knock out the SIE with no trouble at all the first time This book takes you from basic security investments to options and customer care and includes chapter quizzes in text and online practice tests and advice on starting out in the industry Take 4 full length practice tests in the book and online Prep yourself to the max Avoid common exam pitfalls Kickstart your career In this field results are what it s all about starting now Passing with a high score vastly increases your chances of getting to the top Why leave it to chance Score this book now and score big in the future

**To Review H.R. 4351, as Amended and Reported by the Committee on Interior and Insular Affairs** United States. Congress. House. Committee on Armed Services. Subcommittee on Military Installations and Facilities, 1987

**Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual** Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone s Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many

different learning styles and to engage users in the practical aspect of the material discussed in the chapter *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

**Congressional Record** United States. Congress, 2000 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Series 7 Exam 2022-2023 For Dummies with Online Practice Tests** Steven M. Rice, 2021-06-02 The study tool you need for the Series 7 Exam Your gateway to the world of finance is the Series 7 Exam pass it and you re in for a rewarding career as a stockbroker You don t have to study for this important exam alone Series 7 Exam For Dummies gives you all the tips tricks and practice you need to obtain your required certification This book smartly balances three areas of study in one convenient package the topics on the exam how to prepare for test day and to take the exam and practice tests Find in this book How to sign up for the test and tips to get through test day Different study strategies The basics of security investments such as equity securities and municipal bonds More advanced security topics such as margin accounts and packaged securities How to conduct market research such as portfolio and securities analysis Legal concerns IRS rules and regulations Chapter exams and online practice quizzes With Series 7 Exam For Dummies as your study guide you ll be ready to tackle the 125 exam questions Whether it s a question about the underwriting process investment companies or income tax implications you ll find all the information to prepare in this resourceful book Your stockbroker career is just one certification away get your copy of Series 7 Exam For Dummies with included online practice tests to get started on your career you ve worked hard for

*Climate-resilience policies and investments for Egypt's agriculture sector: Sustaining productivity and food security* Perez, Nicostrato D., Kassim, Yumna, Ringler, Claudia, Thomas, Timothy S., ElDidi, Hagar, Breisinger, Clemens, 2021-09-24 The importance of a resilient agriculture sector in providing food security livelihoods and household income was highlighted in many countries by the recent pandemic as was the capacity of the sector to cushion the negative impacts of the subsequent economic slowdown This has been the case in Egypt where agriculture has been resilient to the health crisis in comparison with the service and industry sectors Breisinger et al 2020 However the sector s resiliency is gradually being corroded by climate change with lasting harmful effects for agriculture and food systems



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