

Name _____ Date _____ Class _____

CHAPTER 12

STUDY GUIDE FOR CONTENT MASTERY

Section 12.3 Limiting Reactants

In your textbook, read about why reactions stop and how to determine the limiting reactant.

Study the diagram showing a chemical reaction and the chemical equation that represents the reaction. Then complete the table. Show your calculations for questions 25–27 in the space below the table.



The molar masses of O_2 , NO , and NO_2 are 32.00 g/mol, 30.01 g/mol, and 46.01 g/mol, respectively.

Amount of O_2	Amount of NO	Amount of NO_2	Limiting Reactant	Amount and State of Excess Reactant
1 molecule	2 molecules	2 molecules	none	none
4 molecules	4 molecules	4 molecules	NO	2 molecules O_2
2 molecules	8 molecules	1, 4 molecules	2, O_2	3, 4 molecules NO
1.00 mol	2.00 mol	4, 2.00 mol	5, none	6, none
4.00 mol	4.00 mol	7, 4.00 mol	8, NO	9, 2.00 mol O_2
1.00 mol	7.00 mol	10, 7.00 mol	11, NO	12, 1.50 mol O_2
1.00 mol	4.00 mol	13, 2.00 mol	14, O_2	15, 2.00 mol NO
0.500 mol	0.200 mol	16, 0.200 mol	17, NO	18, 0.400 mol O_2
32.00 g	60.02 g	19, 62.82 g	20, none	21, none
16.00 g	60.02 g	22, 46.01 g	23, O_2	24, 58.12 g NO
16.00 g	20.00 g	25, 28.76 g	26, O_2	27, 1.24 g NO

balanced equation mole ratio = 2 mol $\text{NO}/1$ mol O_2

$16.00 \text{ g } \text{O}_2 \times 1 \text{ mol } \text{O}_2/32.00 \text{ g } \text{O}_2 = 0.5125 \text{ mol } \text{O}_2$

$20.00 \text{ g } \text{NO} \times 1 \text{ mol } \text{NO}/30.01 \text{ g } \text{NO} = 0.6664 \text{ mol } \text{NO}$

actual mole ratio = $0.6664 \text{ mol } \text{NO}/0.5125 \text{ mol } \text{O}_2 = 2.132 \text{ mol } \text{NO}/1.000 \text{ mol } \text{O}_2$

Because the actual mole ratio of $\text{NO}:\text{O}_2$ is larger than the balanced equation mole ratio of $\text{NO}:\text{O}_2$, there is an excess of NO ; O_2 is the limiting reactant.

Mass of NO used = $0.5125 \text{ mol } \text{O}_2 \times 2 \text{ mol } \text{NO}/1 \text{ mol } \text{O}_2 = 0.4250 \text{ mol } \text{NO}$

$0.4250 \text{ mol } \text{NO} \times 30.01 \text{ g } \text{NO}/1 \text{ mol } \text{NO} = 12.76 \text{ g } \text{NO}$

Mass of NO_2 produced = $0.4250 \text{ mol } \text{NO}_2 \times 46.01 \text{ g } \text{NO}_2/1 \text{ mol } \text{NO}_2 = 19.56 \text{ g } \text{NO}_2$

Excess $\text{NO} = 20.00 \text{ g } \text{NO} - 12.76 \text{ g } \text{NO} = 7.24 \text{ g } \text{NO}$

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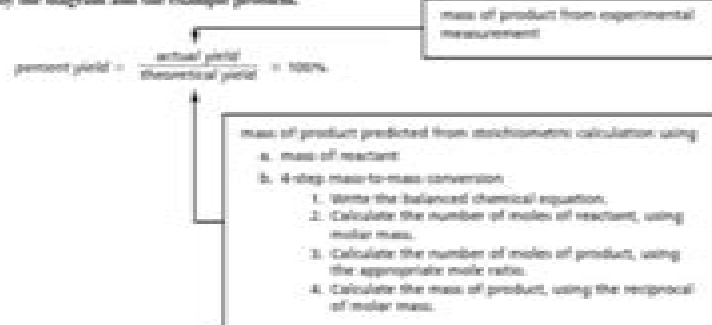
CHAPTER 12

STUDY GUIDE FOR CONTENT MASTERY

Section 12.4 Percent Yield

In your textbook, read about the yield of products.

Study the diagram and the example problem.



Example Problem: The following chemical equation represents the production of gallium oxide, a substance used in the manufacturing of some semiconductor devices.



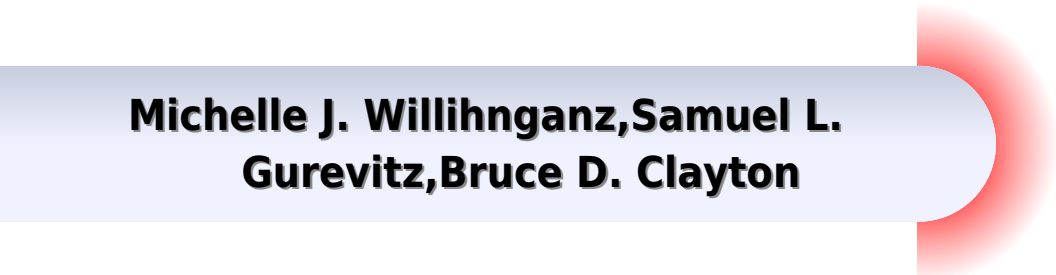
In one experiment, the reaction yielded 7.42 g of the oxide from a 7.00-g sample of gallium. Determine the percent yield of this reaction. The molar masses of Ga and Ga_2O_3 are 69.72 g/mol and 187.44 g/mol, respectively.

Use the information in the diagram and example problem to evaluate each value or expression below. If the value or expression is correct, write correct. If it is incorrect, write the correct value or expression.

- actual yield: unknown $7.42 \text{ g } \text{Ga}_2\text{O}_3$
- mass of reactant: 7.00 g Ga correct
- number of moles of reactant: $7.00 \text{ g } \text{Ga} \times \frac{69.72 \text{ g } \text{Ga}}{1 \text{ mol } \text{Ga}} = 7.00 \text{ g } \text{Ga} \times 1 \text{ mol } \text{Ga}/69.72 \text{ g } \text{Ga}$
- number of moles of product: $0.100 \text{ mol } \text{Ga} \times \frac{2 \text{ mol } \text{Ga}_2\text{O}_3}{1 \text{ mol } \text{Ga}} = 0.100 \text{ mol } \text{Ga}_2\text{O}_3/4 \text{ mol } \text{Ga}$
- theoretical yield: $0.100 \text{ mol } \text{Ga}_2\text{O}_3 \times \frac{187.44 \text{ g } \text{Ga}_2\text{O}_3}{1 \text{ mol } \text{Ga}_2\text{O}_3} = 18.74 \text{ g } \text{Ga}_2\text{O}_3$ correct
- percent yield: $\frac{7.42 \text{ g } \text{Ga}_2\text{O}_3}{18.74 \text{ g } \text{Ga}_2\text{O}_3} \times 100 = 7.42 \text{ g } \text{Ga}_2\text{O}_3/18.74 \text{ g } \text{Ga}_2\text{O}_3 \times 100$

Limiting Reactants Study Guide For Content Mastery

**Michelle J. Willihnganz, Samuel L.
Gurevitz, Bruce D. Clayton**



Limiting Reactants Study Guide For Content Mastery:

Introduction to Maternity and Pediatric Nursing - E-Book Gloria Leifer, 2014-10-01 Part of the popular LPN Threads series *Introduction to Maternity Pediatric Nursing* provides a solid foundation in obstetrics and pediatric nursing An easy to follow organization by developmental stages discussion of disorders by body system from simple to complex and health to illness and a focus on family health make it a complete guide to caring for maternity and pediatric patients Written in a clear concise style by Gloria Leifer MA RN this edition reflects the current NCLEX test plan with additional material on safety health promotion nutrition and related psychosocial care provides clinical information and insights in a concise structured and informative way that encourages critical thinking Reviewed by Kim Shrieves on behalf of Nursing Times April 2015 Concise yet comprehensive content is presented within the scope of practice for the LVN LPN but with sufficient depth to facilitate students in a ladder program allowing them to be successful with the ADN program requirements for the specialties Step by step procedure lists throughout the text help you master important maternity and pediatric nursing processes with Skills Performance Checklists available on the Evolve website Nursing Care Plans with Critical Thinking Questions reinforce the nursing process and strengthen problem solving skills as applied to maternity nursing Logical organization of content from simple to complex and health to illness makes locating and accessing information easy Key terms with phonetic pronunciations and text page references help improve terminology and language skills of English as a Second Language ESL students and students with limited proficiency in English before they enter clinical practice Health Promotion boxes emphasize the importance of family centered care health promotion and illness prevention women s health issues and growth and development of child and parent to help you understand and teach wellness and disease prevention to patients in your care Nutrition content highlights the importance of proper nutrition for women before during and after pregnancy for those who are breastfeeding as well as critical information about the nutrition needs and problems of newborns infants and children Nursing Tips throughout provide pertinent information applicable in the clinical setting that reinforces what you have just learned while building on previously learned information NEW Unfolding case studies with illustrations follow first time parents Tess and Luis throughout the stages of pregnancy and birth of their twins with a series of critical thinking questions NEW Updated NCLEX exam style review questions have been revised to a higher cognitive level to better reflect the NCLEX examination NEW Expanded coverage of bioterrorism and natural disasters better reflects the evolving role of the nurse in disaster situations NEW Enhanced appendix includes Pediatric Lab Values for quick and easy reference

Introduction to Maternity & Pediatric Nursing - E-Book Gloria Leifer, 2013-11-28 Part of the popular LPN Threads series *Introduction to Maternity Pediatric Nursing* provides a solid foundation in obstetrics and pediatric nursing An easy to follow organization by developmental stages discussion of disorders by body system from simple to complex and health to illness and a focus on family health make it a complete guide to caring for maternity and pediatric patients Written in a clear

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Introduction to Maternity and Pediatric Nursing Gloria Leifer, MA, RN, CNE, 2014-09-11 Part of the popular LPN Threads series Introduction to Maternity Pediatric Nursing provides a solid foundation in obstetrics and pediatric nursing An easy to follow organization by developmental stages discussion of disorders by body system from simple to complex and health to illness and a focus on family health make it a complete guide to caring for maternity and pediatric patients Written in a clear concise style by Gloria Leifer MA RN this edition reflects the current NCLEX test plan with additional material on safety health promotion nutrition and related psychosocial care provides clinical information and insights in a concise structured and informative way that encourages critical thinking Reviewed by Kim Shrieves on behalf of Nursing Times April 2015 Concise yet comprehensive content is presented within the scope of practice for the LVN LPN but with sufficient depth to facilitate students in a ladder program allowing them to be successful with the ADN program requirements for the specialties Step by step procedure lists throughout the text help you master important maternity and pediatric nursing processes with Skills Performance Checklists available on the Evolve website Nursing Care Plans with Critical Thinking Questions reinforce the nursing process and strengthen problem solving skills as applied to maternity nursing Logical organization of content from simple to complex and health to illness makes locating and accessing information easy Key terms with phonetic pronunciations and text page references help improve terminology and language skills of English as a Second Language ESL students and students with limited proficiency in English before they enter clinical practice Health Promotion boxes emphasize the importance of family centered care health promotion and illness prevention women s health issues and growth and development of child and parent to help you understand and teach wellness and disease prevention to patients in your care Nutrition content highlights the importance of proper nutrition for women before during and after pregnancy for those who are breastfeeding as well as critical information about the nutrition needs and problems of newborns infants and children Nursing Tips throughout provide pertinent information applicable in

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is central to reform and change across subject areas and age levels but how much do we really know about how teachers learn to try new lessons in classrooms Minecraft is currently the game of choice for millions of youth and also for these seventeen teachers who claim it has transformed their classrooms Its rapid adoption also provides a unique window of opportunity to look inside the recent memory of innovative teachers and unpack how they learned Why did they pick Minecraft More importantly how did they pick Minecraft Where did they hear about it Who do they trust for ideas How do they test new ideas Can we begin to identify the trajectories of truly innovative teachers It turns out we can and it may not be what you d expect

Research in Education ,1972 **An Executive Guide to Employing Consultants** Richard E. Zackrison,Arthur M. Freedman,2000 Some 85 per cent of consulting efforts are said to fail to produce the intended and promised results This guide seeks to provide the tools and skills a manager needs when employing consultants It discusses how to decide in advance on what type of consultant can best serve the company s interests establish a clear criteria against which prospective consultants can be evaluated conduct selection interviews in a manner that maximizes the chance that selected consultants meet their agreed contractual obligations and manage selected consultants effectively to ensure that they deliver what is intended and expected

Immersion and Distance. Werner Wolf,Walter Bernhart,Andreas Mahler,2013 Readers who appear to be lost in a storyworld members of theatre or cinema audiences who are moved to tears while watching a performance beholders of paintings who are absorbed by the representations in front of them players of computer games entranced by the fictional worlds in which they interactively participate all of these mental states of imaginative immersion are variants of aesthetic illusion as long as the recipients although thus immersed are still residually aware that they are experiencing not real life but life like representations created by artefacts Aesthetic illusion is one of the most forceful effects of reception processes in representational media and thus constitutes a powerful allurement to expose ourselves again and again to e g printed stories pictures and films be they factual or fictional In contrast to traditional discussions of this phenomenon which tend to focus on one medium or genre from one discipline only the present volume explores aesthetic illusion as well as its reverse side the breaking of illusion from a highly innovative multidisciplinary and transmedial perspective The essays assembled stem from disciplines that range from literary theory to art history and include contributions on drama lyric poetry the visual arts photography architecture instrumental music and computer games as well as reflections on the cognitive foundations of aesthetic illusion from an evolutionary perspective The contributions to individual media and aspects of aesthetic illusion are prefaced by a detailed theoretical introduction Owing to its transmedial and multidisciplinary scope the volume will be relevant to students and scholars from a wide variety of fields cultural history at large intermediality and media studies as well as more particularly literary studies music film and art history

Teaching in Social Work Jeane W. Anastas,2010 Built around a teacher and student in situation framework Teaching in Social Work examines the effect of social issues professional norms and needs and various educational settings on the

interactions among educators students and the subjects they learn from publisher *Principles of Counseling and Psychotherapy* Paul R. Peluso, Gerald J. Mozdierz, Joseph Lisiecki, 2013-12-17 Research has shown that the most effective way to prepare students for practice with real clients is to learn to think in a new way rather than simply learning and using a set of steps While there is much to be learned from what master practitioners do in their sessions there is even more knowledge to gain from learning how they think The second edition of *Principles of Counseling and Psychotherapy* offers students and practitioners a way to understand the processes behind effective outcomes with a wide variety of clients The second edition is infused with real world clinical case examples and opportunities for readers to apply the material to the cases being presented New thought exercise sections are specifically designed to engage the reader's natural non linear thinking and transcript material both from cases and from master therapists themselves are interwoven in the text Accompanying videos available through Alexander Street Press bring the text to life and instructors will find testbanks transition notes and narrated PowerPoints available for free download from the book's website at www.routledge-mentalhealth.com *Asia's High Performing Education Systems* Colin Marsh, John Chi-Kin Lee, 2014-07-17 Education officials specialist leaders and teachers have all been involved in different ways to bring about school reform in Hong Kong This book is a very current and relevant analysis of this reform highlighting the way in which agencies have cooperated in bringing about change over the last several decades Through a process of wide ranging decision making collaboration and consensus among key bodies and agencies of change some important developments have occurred The reforms collectively have had and are continuing to have a major impact upon schooling in Hong Kong This volume represents a range of authors and specialists involved in a number of different reforms covering themes such as historical policy contexts new curriculum approaches changing pedagogies school leadership implementation and change and assessment and evaluation This is a very topical book which provides a probing analysis of how an Asian education system has been able to reach and maintain a very high performing level **Dissertation Abstracts**, 1955-09 [Resources in Education](#), 1982 **Bulletin of the Atomic Scientists**, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world [Bulletin of the Atomic Scientists](#), 1972-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world [Government reports annual index](#), 199? [Bulletin of the Atomic Scientists](#), 1969-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **Bulletin of the Atomic Scientists**, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and

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 - Chapter 5: Conclusion
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web numerically the solution is $\vec{d}_b = \vec{d}_a + \vec{i}_1 + \vec{j}_2 + \vec{i}_3 + \vec{j}_3 + \vec{i}_2 + \vec{j}_5$ 6 find the unit vectors that point from a to the other points b to g in question 2 express each vector in component $\hat{i}\hat{j}$ notation

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