

Chemistry Unit 8 Worksheet 4

Samples of Every Kind of Problem

On a separate sheet of paper, write a complete solution to each of the problems below. Follow the procedure outlined in class. Be sure to circle your final answer.

1. Calculate the number of moles of potassium chlorate, KClO_3 (s), that must decompose to produce potassium chloride, KCl (s), and 1.8 moles of oxygen gas.

Equation:	$2 \text{KClO}_3 \rightarrow 2 \text{KCl} + 3 \text{O}_2$			1.2 moles KClO_3 needed
Before:	1.2	0	0	
Change:	-1.2	+1.2	+1.8	
After:	0	1.2	1.8	

2. In a single displacement reaction, magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. How many moles of hydrochloric acid are needed to completely react with 2.43 g of magnesium?

Equation:	$\text{Mg} + 2 \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$	0.200 moles HCl needed
Before:	0.100 ? 0 0	
Change:	-0.100 -0.200 + 0.100 + 0.100	
After:	0 ? 0.100 0.100	

3. Ethane, C_2H_6 reacts with oxygen gas to produce carbon dioxide gas and water vapor. What mass of oxygen gas is required to react with 2.20 moles of ethane?

Equation:	$2 \text{C}_2\text{H}_6 + 7 \text{O}_2 \rightarrow 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
Before:	2.20 xs 0 0
Change:	-2.20 -7.70 +4.40 +6.60
After:	0 xs 4.40 6.60

$$\text{O}_2 \text{ needed: } 7.70 \text{ mole} \times \frac{32.0 \text{ g}}{1 \text{ mole}} = 246 \text{ g O}_2 \text{ required}$$

4. Determine the mass of sodium nitrate produced when 0.73 g of nickel (II) nitrate reacts with sodium hydroxide according to the following equation:



$$0.73 \text{ g} \times \frac{1 \text{ mole}}{183 \text{ g}} = .0040 \text{ mole}$$

Equation:	$\text{Ni}(\text{NO}_3)_2 + 2 \text{NaOH} \rightarrow \text{Ni}(\text{OH})_2 + 2 \text{NaNO}_3$
Before:	0.0040 XS 0 0
Change:	-0.0040 -0.0080 +0.0040 +0.0080
After:	0 XS 0.0040 0.0080

$$\text{NaNO}_3 \text{ produced: } 0.0080 \text{ mole} \times \frac{85.0 \text{ g}}{1 \text{ mole}} = 0.68 \text{ g}$$

Pearson Education Chemistry Worksheet Answers

Rex M. Heyworth



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General Catalogue of Printed Books to 1955 British Museum. Dept. of Printed Books, 1967 Pearson Chemistry Unit 4 Staley Wilbraham (Matta, Waterman), 2022 **Study Guide and Selected Solutions Manual** Susan McMurry, 2002-08-01 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the textbook **Pearson Chemistry Unit 5** Staley Wilbraham (Matta, Waterman), 2022 Pearson Chemistry Unit 2 Staley Wilbraham (Matta, Waterman), 2022 **Pearson Chemistry Unit 7** Staley Wilbraham (Matta, Waterman), 2022 Pearson Chemistry Unit 6 Staley Wilbraham (Matta, Waterman), 2022

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Table of Contents Pearson Education Chemistry Worksheet Answers

1. Understanding the eBook Pearson Education Chemistry Worksheet Answers
 - The Rise of Digital Reading Pearson Education Chemistry Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Education Chemistry Worksheet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pearson Education Chemistry Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Education Chemistry Worksheet Answers

- Personalized Recommendations
- Pearson Education Chemistry Worksheet Answers User Reviews and Ratings
- Pearson Education Chemistry Worksheet Answers and Bestseller Lists
- 5. Accessing Pearson Education Chemistry Worksheet Answers Free and Paid eBooks
 - Pearson Education Chemistry Worksheet Answers Public Domain eBooks
 - Pearson Education Chemistry Worksheet Answers eBook Subscription Services
 - Pearson Education Chemistry Worksheet Answers Budget-Friendly Options
- 6. Navigating Pearson Education Chemistry Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Pearson Education Chemistry Worksheet Answers Compatibility with Devices
 - Pearson Education Chemistry Worksheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pearson Education Chemistry Worksheet Answers
 - Highlighting and Note-Taking Pearson Education Chemistry Worksheet Answers
 - Interactive Elements Pearson Education Chemistry Worksheet Answers
- 8. Staying Engaged with Pearson Education Chemistry Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pearson Education Chemistry Worksheet Answers
- 9. Balancing eBooks and Physical Books Pearson Education Chemistry Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pearson Education Chemistry Worksheet Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pearson Education Chemistry Worksheet Answers
 - Setting Reading Goals Pearson Education Chemistry Worksheet Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pearson Education Chemistry Worksheet Answers

- Fact-Checking eBook Content of Pearson Education Chemistry Worksheet Answers
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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