Stoichiometry Worksheet 2: Percent Yield

For each of the problems below:

- a. Write the balanced chemical equation
- b. Identify the given (with units) and what you want to find (with units)
- c. Show set up with units. Check sig figs, give final answer with units and label.
- Using the Hoffman apparatus for electrolysis, a chemist decomposes 36 g of water into its gaseous elements. How many grams of hydrogen gas should she get (theoretical yield)?

```
Equation: 2 \text{ H}_2\text{O}_{(1)} \rightarrow 2 \text{ H}_2(\omega) + 1 \text{ O}_2(\omega)

Before 2 \text{ mol} \quad 0 \text{ mol} \quad 0 \text{ mol}

Change -2 \text{ mol} \quad +2 \text{ mol}

After 0 \text{ mol} \quad 2 \text{ mol}
```

$$36 g H_2Ox \frac{1 mol H_2O}{18.0 g H_2O} = 2.0 mol H_2O \times \frac{2 mol H_2}{2 mol H_2O} = 2 mol H_2 \times \frac{2.0 g H_2}{1 mol H_2} = 4.0 g H_2$$

2. Recall that liquid sodium reacts with chlorine gas to produce sodium chloride. You want to produce 581 g of sodium chloride. How many grams of sodium are needed?

```
      Equation:
      \frac{2}{2} Na<sub>(1)</sub> + \frac{1}{1} Cl<sub>2(2)</sub> \rightarrow \frac{2}{2} NaCl<sub>(n)</sub>

      Before
      9.94 mol
      xs mol
      0 mol

      Change
      -9.94 mol
      +9.94 mol

      After
      0 mol
      9.94 mol
```

$$581 \text{ g NaClx} \frac{1 \text{ mol NaCl}}{58.5 \text{ g NaCl}} = 9.93 \text{ mol NaCl} \times \frac{2 \text{ mol Na}}{2 \text{ mol NaCl}} = 9.93 \text{ mol Na} \times \frac{23.0 \text{ g Na}}{1 \text{ mol Na}} = 228 \text{ g Na}$$

You eat 180.0 g of glucose (90 M&Ms). If glucose, C6H12O6, reacts with oxygen gas
to produce carbon dioxide and water, how many grams of oxygen will you have to

Percent Yield Stoichiometry Answers With Work

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Percent Yield Stoichiometry Answers With Work:

Percent Yield Stoichiometry Answers With Work Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "Percent Yield Stoichiometry Answers With Work," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Percent Yield Stoichiometry Answers With Work

- 1. Understanding the eBook Percent Yield Stoichiometry Answers With Work
 - The Rise of Digital Reading Percent Yield Stoichiometry Answers With Work
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Percent Yield Stoichiometry Answers With Work
 - 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 Percent Yield Stoichiometry Answers With Work
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Percent Yield Stoichiometry Answers With Work
 - Personalized Recommendations
 - Percent Yield Stoichiometry Answers With Work User Reviews and Ratings
 - Percent Yield Stoichiometry Answers With Work and Bestseller Lists

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