#### Stoichiometry Worksheet # 1

 Glucose is used as a source of energy by the human body. The overall reaction in the body is C6H12O6+6O2 → 6CO2 + 6H2O

Calculate the number of moles of oxygen needed to oxidize 12.5 g of C6H12O6.

Ammonia is synthesized from hydrogen and nitrogen according to the following equation.

$$N_2 + 3H_2 \rightarrow 2NH_3$$

If an excess of nitrogen is reacted with 3.41 moles of hydrogen gas, how many grams of ammonia (NH<sub>3</sub>) can be produced?

3) Assume that in the decomposition of potassium chlorate, KCLO<sub>3</sub>,

80.5 moles of O: form. How many grams of potassium chlorite, the other product would be formed?

4) In a single displacement reaction,

9.23 moles of aluminum react with excess hydrochloric acid. How many moles of hydrogen will be produced?

5) The compound "Cisplatin" PtCl<sub>2</sub>(NH<sub>2</sub>)<sub>2</sub>, has been found to be effective in treating some types of cancer. It can be synthesized using the following reaction

$$K_2PtCl_4 + 2NH_3 \longrightarrow 2KCl + PtCl_2(NH_3)_2$$

- A. How many moles of "cisplatin" can be produced from 2.50 g K2PtCl4?
- B. How many moles of NH3 would be needed if 3.8 moles of K2PtCl4 were present?

# **Answer Key To Stoichiometry Test Ch 12**

**K Payea** 

**Answer Key To Stoichiometry Test Ch 12:** 

Whispering the Strategies of Language: An Emotional Quest through Answer Key To Stoichiometry Test Ch 12

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### Table of Contents Answer Key To Stoichiometry Test Ch 12

- 1. Understanding the eBook Answer Key To Stoichiometry Test Ch 12
  - The Rise of Digital Reading Answer Key To Stoichiometry Test Ch 12
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Key To Stoichiometry Test Ch 12
  - 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 Answer Key To Stoichiometry Test Ch 12
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Key To Stoichiometry Test Ch 12
  - Personalized Recommendations

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

- 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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