

CHAPTER 11 REVIEW*Molecular Composition of Gases***MIXED REVIEW****SHORT ANSWER** Answer the following questions in the space provided.

1. _____ The average speed of a gas molecule is most directly related to the _____.
(a) polarity of the molecule
(b) pressure of the gas
(c) temperature of the gas
(d) number of moles in the sample
2. _____ Which of the following statements best represents Graham's law for two gases at the same temperature?
(a) The molar masses and the velocities are inversely proportional.
(b) The molar masses and the velocities are directly proportional.
(c) The molar masses and the square roots of the velocities are directly proportional.
(d) The molar masses and the squares of the velocities are inversely proportional.
3. Water is synthesized from its elements according to the following equation:
$$2\text{H}_2(g) + \text{O}_2(g) \rightarrow 2\text{H}_2\text{O}(l)$$

_____ a. Which is greater, the volume of H_2 consumed or the volume of O_2 consumed?
_____ b. Which is greater, the mass of H_2 consumed or the mass of O_2 consumed?
4. Consider a 2.24 L sample of an ideal gas at STP.
_____ a. How many moles are present in the sample, or is more data needed?
_____ b. How many molecules are present in the sample, or is more data needed?
_____ c. What is the mass of the sample, or is more data needed?

PROBLEMS Write the answer on the line to the left. Show all your work in the space provided.

5. _____ Calculate the volume of 3.5 mol of an ideal gas at 24°C and 760 torr.

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RC Schank



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Table of Contents Concept Review Section Molecular Composition Of Gases Answer Key

1. Understanding the eBook Concept Review Section Molecular Composition Of Gases Answer Key
 - The Rise of Digital Reading Concept Review Section Molecular Composition Of Gases Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Concept Review Section Molecular Composition Of Gases Answer Key
 - 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 Concept Review Section Molecular Composition Of Gases Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concept Review Section Molecular Composition Of Gases Answer Key
 - Personalized Recommendations
 - Concept Review Section Molecular Composition Of Gases Answer Key User Reviews and Ratings
 - Concept Review Section Molecular Composition Of Gases Answer Key and Bestseller Lists

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 - ePub, PDF, MOBI, and More
 - Concept Review Section Molecular Composition Of Gases Answer Key Compatibility with Devices
 - Concept Review Section Molecular Composition Of Gases Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concept Review Section Molecular Composition Of Gases Answer Key
 - Highlighting and Note-Taking Concept Review Section Molecular Composition Of Gases Answer Key
 - Interactive Elements Concept Review Section Molecular Composition Of Gases Answer Key
8. Staying Engaged with Concept Review Section Molecular Composition Of Gases Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concept Review Section Molecular Composition Of Gases Answer Key
9. Balancing eBooks and Physical Books Concept Review Section Molecular Composition Of Gases Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concept Review Section Molecular Composition Of Gases Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Concept Review Section Molecular Composition Of Gases Answer Key
 - Setting Reading Goals Concept Review Section Molecular Composition Of Gases Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concept Review Section Molecular Composition Of Gases Answer Key
 - Fact-Checking eBook Content of Concept Review Section Molecular Composition Of Gases Answer Key
 - 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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