

## Gas laws practice test

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Pressure is the force per unit  
a. volume. c. length.  
b. surface area. d. depth.
- \_\_\_\_\_ 2. Why does a can collapse when a vacuum pump removes air from the can?  
a. The inside and outside forces balance out and crush the can.  
b. The unbalanced outside force from atmospheric pressure crushes the can.  
c. The atmosphere exerts pressure on the inside of the can and crushes it.  
d. The vacuum pump creates a force that crushes the can.
- \_\_\_\_\_ 3. If the height of mercury in a barometer at 00C is less than 760 mm Hg, then  
a. the atmospheric pressure is less than standard atmospheric pressure.  
b. the atmospheric pressure is greater than standard atmospheric pressure.  
c. the atmospheric pressure is equal to standard atmospheric pressure.  
d. the atmospheric pressure cannot be determined.
- \_\_\_\_\_ 4. Convert the pressure 0.840 atm to mm Hg.  
a. 365 mm Hg c. 638 mm Hg  
b. 437 mm Hg d. 780 mm Hg
- \_\_\_\_\_ 5. Convert the pressure 1.30 atm to kPa.  
a. 2 kPa c. 132 kPa  
b. 115 kPa d. 245 kPa
- \_\_\_\_\_ 6. Standard temperature is exactly  
a. 1000C. e. 00C.  
b. 2730C. d. 0 K.
- \_\_\_\_\_ 7. Three samples of gas each exert 740. mm Hg in separate 2 L containers. What pressure do they exert if they are all placed in a single 2 L container?  
a. 247 mm Hg c.  $1.48 \times 10^3$  mm Hg  
b. 740 mm Hg d.  $2.22 \times 10^3$  mm Hg
- \_\_\_\_\_ 8. If the temperature remains constant,  $V$  and  $P$  represent the original volume and pressure, and  $V'$  and  $P'$  represent the new volume and pressure, what is the mathematical expression for Boyle's law?  
a.  $P'V = V'P$  c.  $VP = V'P'$   
b.  $VV' = PP'$  d.  $V = \frac{VP'}{P}$
- \_\_\_\_\_ 9. A sample of oxygen occupies 560. mL when the pressure is 800.00 mm Hg. At constant temperature, what volume does the gas occupy when the pressure decreases to 700.0 mm Hg?  
a. 80.0 mL c. 600. mL  
b. 490. mL d. 640. mL
- \_\_\_\_\_ 10. If the temperature of a fixed quantity of gas decreases and the pressure remains unchanged,  
a. its volume increases. c. its volume decreases.  
b. its volume is unchanged. d. its density decreases.

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**Xiang Xie**

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## **Table of Contents Gas Laws Practice Test Multiple Choice**

1. Understanding the eBook Gas Laws Practice Test Multiple Choice
  - The Rise of Digital Reading Gas Laws Practice Test Multiple Choice
  - Advantages of eBooks Over Traditional Books
2. Identifying Gas Laws Practice Test Multiple Choice
  - 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 Gas Laws Practice Test Multiple Choice
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gas Laws Practice Test Multiple Choice
  - Personalized Recommendations
  - Gas Laws Practice Test Multiple Choice User Reviews and Ratings
  - Gas Laws Practice Test Multiple Choice and Bestseller Lists
5. Accessing Gas Laws Practice Test Multiple Choice Free and Paid eBooks

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