

## 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.  $P'V = V'P$  e.  $VP = V'P'$   
b.  $VV' = PP'$  d.  $V = \frac{V'P'}{P}$
- \_\_\_\_\_ 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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**Guillaume Favre**

A decorative graphic consisting of a semi-circle with a red-to-white gradient, positioned to the right of the author's name.

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