

Gas Laws

Name: _____

Date: _____

1. Boyle's Law: When _____ is held constant, the pressure and volume of a gas are _____ proportional.
2. Mathematically, Boyle's law is stated $PV = \text{_____}$ or $P_1V_1 = \text{_____}$.
3. At a pressure of 405 kPa, the volume of a gas is 6.00 cm³. Assuming the temperature remains constant, at what pressure will the new volume be 4.00 cm³?
4. A volume of gas at 1.10 atm was measured at 326 cm³. What will be the volume if the pressure is adjusted to 1.90 atm?
5. If 36.5 m³ of a gas are collected at a pressure of 755 mm Hg, what volume will the gas occupy if the pressure is changed to 632 mm Hg?