

Gas Laws

Name: _____

Class: 8 _____

1. A sample of gas has a volume of 400 mL when measured at 25 C and 760 torr. What volume will it occupy at 25 C and 195 Torr?

2. A given sample of gas has a volume of 5.2 L at 27 C and 640 torr. Its volume and temperature are changed to 2.1 L and 100 C respectively , calculate the pressure at these conditions.

3. Given the following sets of values for an ideal gas, calculate the unknown quantity:

a. $P = 785 \text{ mmHg.}$ $V =$ $n = 0.216 \text{ mol.}$ $T = 27 \text{ C}$

b. $P = .$ $V = 665 \text{ mL.}$ $n = 0.0948 \text{ mol.}$ $T = 30 \text{ C}$