

Name _____ Per _____ Date _____

Honors Chemistry: Gas Laws Review Worksheet

Combined Gas Laws

1. A gas is at 1.33 atm of pressure and a volume of 682 mL. What will the pressure be if the volume is reduced to 0.419 L? **(2.16 atm)**

2. Nitrogen gas is being held in a 14.3 m³ tank at a temperature of 62°C. What will the volume be when the temperature drops to 24°C? **(12.6 m³)**

3. A gas storage tank is a 1.72 atm and 35°C. What temperature is the gas at if the pressure increases to 2.00 atm? **(354 K)**

4. A gas with a volume of 1.00 L is at 135°C and 844 mm Hg. What is the volume if the conditions change to 14° C and 748 mm Hg? **(0.794L)**

5. Calculate the mass of 162 L of chlorine gas, measured at STP. **(513 g)**