milliliters in a The pressure of and the tempe	as occupies a volume of 50.0 cylinder with a movable piston. of the sample is 0.90 atmosphere rature is 298 K. What is the sample at STP? 3) 51 mL 4) 55 mL	200. liters. If the	a sample of a gas at 273°C is e volume is decreased to 100. t pressure, what will be the new he gas? 3) 273 K 4) 546 K
 2) A sample of helium gas has a volume of 900. milliliters and a pressure of 2.50 atm at 298 K. What is the new pressure when the temperature is changed to 336 K and the volume is decreased to 450. milliliters? 1) 0.177 atm 2) 4.43 atm 3) 5.64 atm 4) 14.1 atm 		 4) A gas sample has a volume of 25.0 milliliters at a pressure of 1.00 atmosphere. If the volume increases to 50.0 milliliters and the temperature remains constant, the new pressure will be 1) 1.00 atm 2) 2.00 atm 3) 0.250 atm 4) 0.500 atm 	

Name_____

5. A sample of gas at 27.0 °C has a pressure of 660.mmHg. At constant volume, what will be the new pressure in atmospheres if the temperature increases to 48.0 °C?

6. If 75.0 cm³ of CO₂ gas are collected at a temperature of 296 K and a pressure of 98.0kPa, what volume will the gas occupy if the pressure is changed to 0.892atm and the temperature changes to 282 K?