Maria	Data	Class sassiads
Name:	Date:	Class period:



## Unit: Gas Laws "Boyle's and Charles's Laws"

	<del></del>
	rections: Please show all work, round each answer the correct number of significant figures, d include units. ©
1.	A gas occupies 100.0 mL at a pressure of 780 mm Hg. What is the volume of the gas when its pressure is increased to 880 mm Hg?
2.	A gas has a pressure of 0.410 atm and a volume of 32 L. At what pressure would the volume of the gas change to 28L?
3.	A gas occupies 525 mL at a pressure of 85.0 kPa. What would the volume of the gas be at a pressure of 65.0 kPa?
4.	A gas occupies 3.5 L at standard pressure. Find the volume of the gas when the pressure is 1140 mm Hg.
5.	A gas has a volume of 750 mL at a pressure of 2.15 atm. What will the pressure be if the volume becomes 1.25 L?

6.	If a gas has a volume of 750 mL at 25°C, what would the volume of the gas be at 55°C?
7.	At what temperature would the volume of a gas be 0.550 L if it had a volume of 0.432 L at -20.0 $^{\circ}$ C?
8.	What would the volume of a gas be at -150°C, if it had a volume of 693 mL at 45°C?
9.	$3.0L$ of a gas is at a temperature of $78^{\circ}\text{C}$ . Find the volume of the gas at standard temperature.
10	. At what temperature (in °C) would the volume of a gas be equal to 45.7 L, if the volume of that gas was 33.9 L at 12.4°C?