Advanced Chemistry	NAME:	PER:
All Gas Laws Practice Problems WS		

All Ods Ed	W3 FIGURE FIODICITIS W3	
Instructions:	Determine which gas law to use by looking at the information given. Carry out the SHOW ALL WORK in the empty space below the questions. Write the final answer Remembers the units. If needed, round to the correct number of significant figure	on the blanks provided.
	temperature of a 1.00 liter sample of argon is 20.0°C. The pressure is decre lg and the volume increases to 2.14 liters. What is the new temperature of	
		1
2. A gas has the original p	s a volume of 8.51 liters and a pressure of 760.0 torr. If the volume was origi pressure?	
		2
3. If I have 4. the gas?	.550 moles of a gas at a pressure 5.600 atm and a volume of 12.300 liters, v	what is the temperature of
		3
	ample contains 0.500 moles of a gas. If an additional 0.250 moles of the sc inal volume of the gas?	ame gas was added,
		4
	e of nitrogen gas occupies a volume of 2.00 L at a pressure of 756 mm Hg of 4.50 L and the temperature decreases to 137 K. What is the final pressure	

5. \_\_\_\_\_

6. A gas occupies 12.30 liters at a pressure of 40.00 mm Hg. What is the volume wher to 60.00 mm Hg?	n the pressure is increased
7. If I have an unknown quantity of a gas at a pressure of 1.200 atm , a volume of 31. temperature of 87.45°C, how many moles of gas do I have?	6
	7
8. A gas occupies 900.00 mL at a temperature of 27.00°C. What is the volume at 132	3.00°C\$
	8
9. A 25.5 liter balloon holding 3.54 mole of carbon dioxide leaks. If we were able to of carbon dioxide escapes before the container could be sealed, what is the new vo	
	9.
10. Calculate the new temperature when a gas with the volume of 2.450 L at 20.00% volume of 1.000 L.	
	10

11. A sample of gas contains 2.98 moles of hydrogen in a 32.8 L container. How mo a 45.3 liter containers?	any moles of hydrogen are in
12. If I have 0.275 moles of gas <b>at STP</b> , what is the volume of the gas?	11
13. Some students believe that teachers are full of hot air. If I inhale 2.240 L of gas a and it heats to a temperature of 38.50°C in my lungs, what is the new volume of the	
14. If I have 21.366 liters of gas held at a pressure of 78.11 atm and a temperature of volume of the gas if I decreases the pressure to 45.55 atm and decreases the temp	
15. A balloon with a volume of 2.00 L is filled with a gas at a pressure of 3.00 atmospreduced to 0.500 atmospheres, what would be the new volume of the balloon?	14 oheres. If the pressure is
	15