WORKSHEET #2

Name:	Date:	Period:	Seat #:	

Boyle's Law states that the volume of a gas varies inversely with its pressure if temperature is held constant. (If one goes up, the other goes down.) We use the formula:

$$P_1 \times V_1 = P_2 \times V_2$$

A sample of oxyger 800. torr pressure?	gas occupies a volume of 250. mL at 740. torr pressure. What volume will it occupy a 31 mL
	dioxide occupies a volume of 3.50 Liters at 125 kPa pressure. What pressure would olume was decreased to 2.00 liters? 219 kPa
	er of nitrogen had a pressure of 3.20 atm. What volume would be necessary to e to 1.00 atm? 6.40 L
	ies a volume of 450.0 mL as a pressure of 720. mmHg. What volume will it occupy a 60 mmHg)? 426 mL
A 175 mL sample o 87.5 mL	neon had its pressure changed from 75.0 kPa to 150.0 kPa. What is its new volume?