Name _____   Boyle's Law Worksheet

Date _____   Hour _____

For each problem below, give the equation needed and show what is given (V_1, P_1, etc.)

1. What volume will 50 ml of a gas at 725 Torrs occupy if the pressure is increased to 760 Torrs?

2. A gas occupies 250 ml when the barometer reads 720 mm. How many milliliters will it occupy when the barometer reads 740 mm?

3. Find the volume of a gas at standard pressure if its volume at 780 mm Hg is 80 ml?

4. Find the volume of a gas which occupies 200 ml at 2.6 atm when it is at standard pressure.

5. Correct 36.0 L of a gas at 0.650 atm to standard pressure.

6. Correct 232 mL of gas at 1.75 atm to 7 atm.

7. At 0.75 atm, the volume of a gas is 300 ml. If the temperature remains constant and the pressure is changed to 456 Torrs, what is the new volume of the gas?

8. If the volume of a gas, at constant temperature, changes from 200 ml to 500 ml, the pressure on the gas must have changed from 400 Torrs to _____.