

10. If the pressure on a 1.00 L sample of gas is increased from 760. mmHg to 2.00 atm at constant temperature, what will the volume of the gas sample become?

11. A 1.04-L sample of gas at 759 mm Hg pressure is expanded until its volume is 2.24 L. What will be the pressure in the expanded gas sample?

12. Find the missing value (all volumes are in L and all pressures are in atm).

a. $V_1=6$, $P_1=2$, $V_2=3$, & $P_2=?$

b. $V_1=6$, $P_1=3$, $V_2=10$, & $P_2=?$

c. $V_1=15$, $P_1=?$, $V_2=5$, & $P_2=10$

d. $V_1=4$, $P_1=2$, $V_2=?$, & $P_2=8$

e. $V_1=?$, $P_1=10$, $V_2=15$, & $P_2=20$