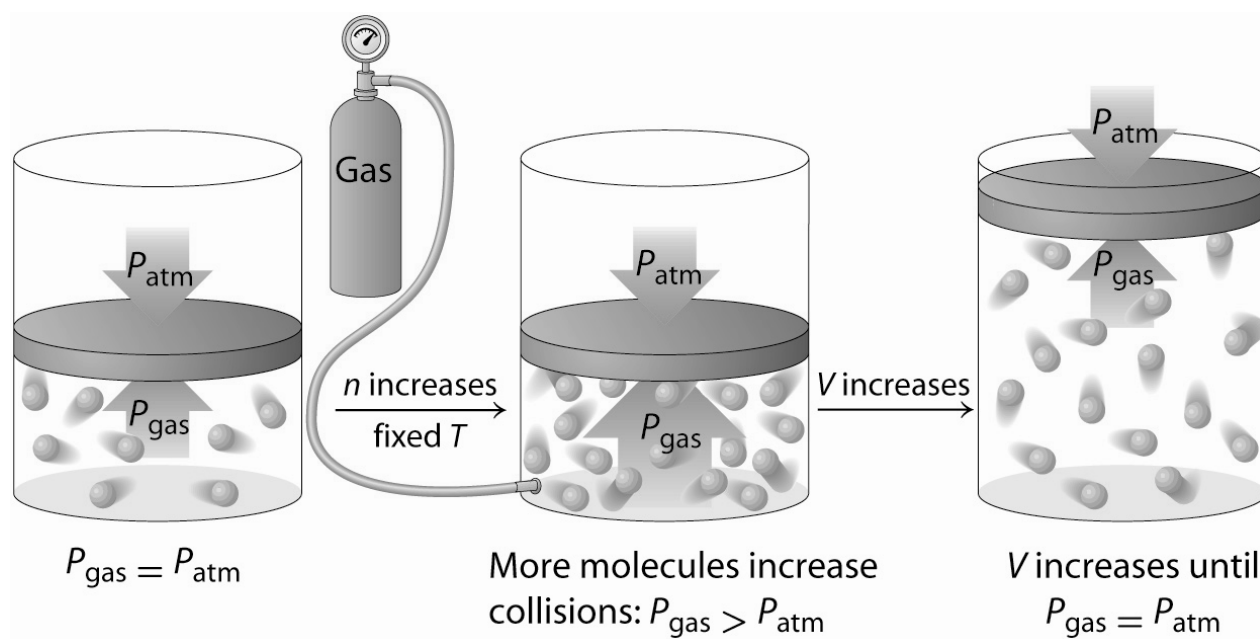


$$\frac{n_1}{V_1} = \frac{n_2}{V_2}$$



When more gas enters a container, the increase in the number of molecules causes the pressure to increase. Because the pressure inside the vessel is greater than the external pressure while the temperature remains constant, the volume will increase. The volume will continue to increase until the internal pressure caused by the gas becomes equal to the external pressure.