

Activity 5: Apply Me!

1.) Given: $P_1 = 0.95 \text{ atm}$, $V_1 = 1.5 \text{ L}$, $V_2 = 0.75 \text{ L}$

Unknown: $P_2 = ?$

Formula: $P_2 = \frac{P_1 V_1}{V_2}$

Solution: $P_2 = \frac{0.95 \cdot 1.5}{0.75} = 1.9 \text{ atm}$

Answer: 1.9 atm

2.) Given: $P_1 = 1.01 \text{ atm}$, $V_1 = 6 \text{ L}$, $V_2 = 3 \text{ L}$

Unknown: $P_2 = ?$

Formula: $P_2 = \frac{P_1 V_1}{V_2}$

Solution: $P_2 = \frac{1.01 \cdot 6}{3} = 2.02 \text{ atm}$

Answer: 2.02 atm