

Complete the following problems based on the Combined Gas Law

Combined Gas Law

Combined Gas Law Forms	$P_1 = \frac{P_2 V_2 T_1}{V_1 T_2}$	$V_1 = \frac{P_2 V_2 T_1}{P_1 T_2}$	$T_1 = \frac{P_1 V_1 T_2}{P_2 V_2}$
$\frac{P_1 V_1 T_2}{P_2 V_2 T_1}$	$P_2 = \frac{P_1 V_1 T_2}{V_2 T_1}$	$V_2 = \frac{P_1 V_1 T_2}{P_2 T_1}$	$T_2 = \frac{P_2 V_2 T_1}{P_1 V_1}$

$$V_1 = \frac{P_2 V_2 T_1}{P_1 T_2}$$

- 5.50
- 2.63
- 447.39
- 3.08
- 347.11

$V_1 = \underline{\hspace{2cm}}$ L, $P_1 = 3.08\text{atm}$ $T_1 = 447.39\text{K}$
 $V_2 = 2.63\text{L}$, $P_2 = 5.50\text{atm}$ $T_2 = 347.11\text{K}$

$V_1 = \frac{5.50\cancel{\text{atm}} \cdot 2.63\text{L} \cdot 447.39\cancel{\text{K}}}{3.08\cancel{\text{atm}} \cdot 347.11\cancel{\text{K}}}$

$V_1 = 6.05\text{L}$ ~~729325.03~~

$V_1 = 6.53\text{L}$, $P_1 = 7.89\text{atm}$ $T_1 = \underline{\hspace{2cm}}$ K
 $V_2 = 3.58\text{L}$, $P_2 = 4.78\text{atm}$ $T_2 = 283.73\text{K}$

$T_1 = \underline{\hspace{2cm}}$

$T_1 = \underline{\hspace{2cm}}$

$V_1 = 4.10\text{L}$, $P_1 = \underline{\hspace{2cm}}$ atm $T_1 = 683.24\text{K}$
 $V_2 = 3.36\text{L}$, $P_2 = 3.54\text{atm}$ $T_2 = 950.17\text{K}$

$P_1 = \underline{\hspace{2cm}}$

$P_1 = \underline{\hspace{2cm}}$

$V_1 = 7.84\text{L}$, $P_1 = 6.48\text{atm}$ $T_1 = 199.21\text{K}$
 $V_2 = 5.88\text{L}$, $P_2 = 9.05\text{atm}$ $T_2 = \underline{\hspace{2cm}}$ K

$T_2 = \underline{\hspace{2cm}}$

$T_2 = \underline{\hspace{2cm}}$

$V_1 = 8.03\text{L}$, $P_1 = 6.34\text{atm}$ $T_1 = 904.7\text{K}$
 $V_2 = \underline{\hspace{2cm}}$ L, $P_2 = 4.28\text{atm}$ $T_2 = 382.37\text{K}$

$V_2 = \underline{\hspace{2cm}}$

$V_2 = \underline{\hspace{2cm}}$

$V_1 = 6.38\text{L}$, $P_1 = 3.06\text{atm}$ $T_1 = 306.19\text{K}$
 $V_2 = 2.65\text{L}$, $P_2 = \underline{\hspace{2cm}}$ atm $T_2 = 580.93\text{K}$

$P_2 = \underline{\hspace{2cm}}$

$P_2 = \underline{\hspace{2cm}}$