

$PV = nRT$

$\frac{PV}{1} = \frac{nRT}{1}$

$\frac{PV}{1} = \frac{gRT}{\text{MW}}$

$\frac{P(\text{MW})}{RT} = \frac{g}{V} = d$

$d = \frac{\text{mass}}{\text{VLE}}$

Dec 6-7:55 AM

Molar t.f. =  $\frac{\text{moles}}{\text{L}}$   $\frac{n}{V}$

$\frac{PV}{1} = \frac{nRT}{1}$

$\frac{P}{RT} = \frac{n}{V} = M$

Dec 6-8:48 AM

## Dalton's Law of partial Pressures

KFC

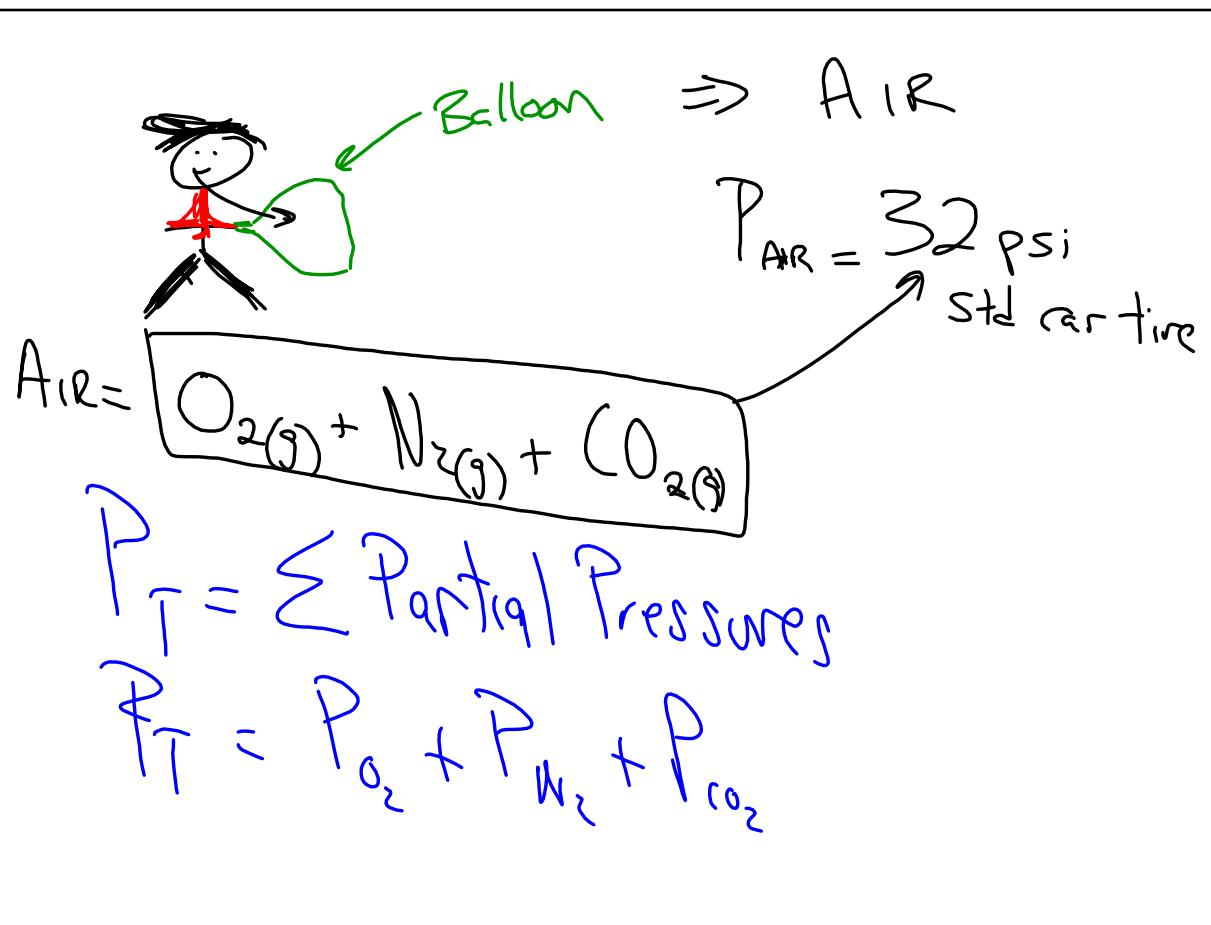
Chicken

2 wings  
2 legs  
2 Thigh,  
2 Breast

Potasser  
(all from  
same  
chicken)

$\Sigma = 1$  chicken

Dec 6-8:50 AM



Dec 6-8:54 AM

$$P_{\text{AIR}} V_{\text{AIR}} = n_{\text{AIR}} R T_{\text{AIR}}$$

← TOTAL

$$P_{\text{O}_2} V_{\text{air}} = n_{\text{O}_2} R T_{\text{AIR}}$$

← some

↑  
 Gases fill entire  
 container

Dec 6-8:59 AM

$$P_T V_T = n_T R T_T$$

$$P_{\text{O}_2} V_{\text{O}_2} = n_{\text{O}_2} R T_{\text{O}_2}$$

$$\frac{P_{\text{O}_2}}{P_T} = \frac{\cancel{n_{\text{O}_2} R T_{\text{O}_2}}}{\cancel{n_T R T_T}}$$

some

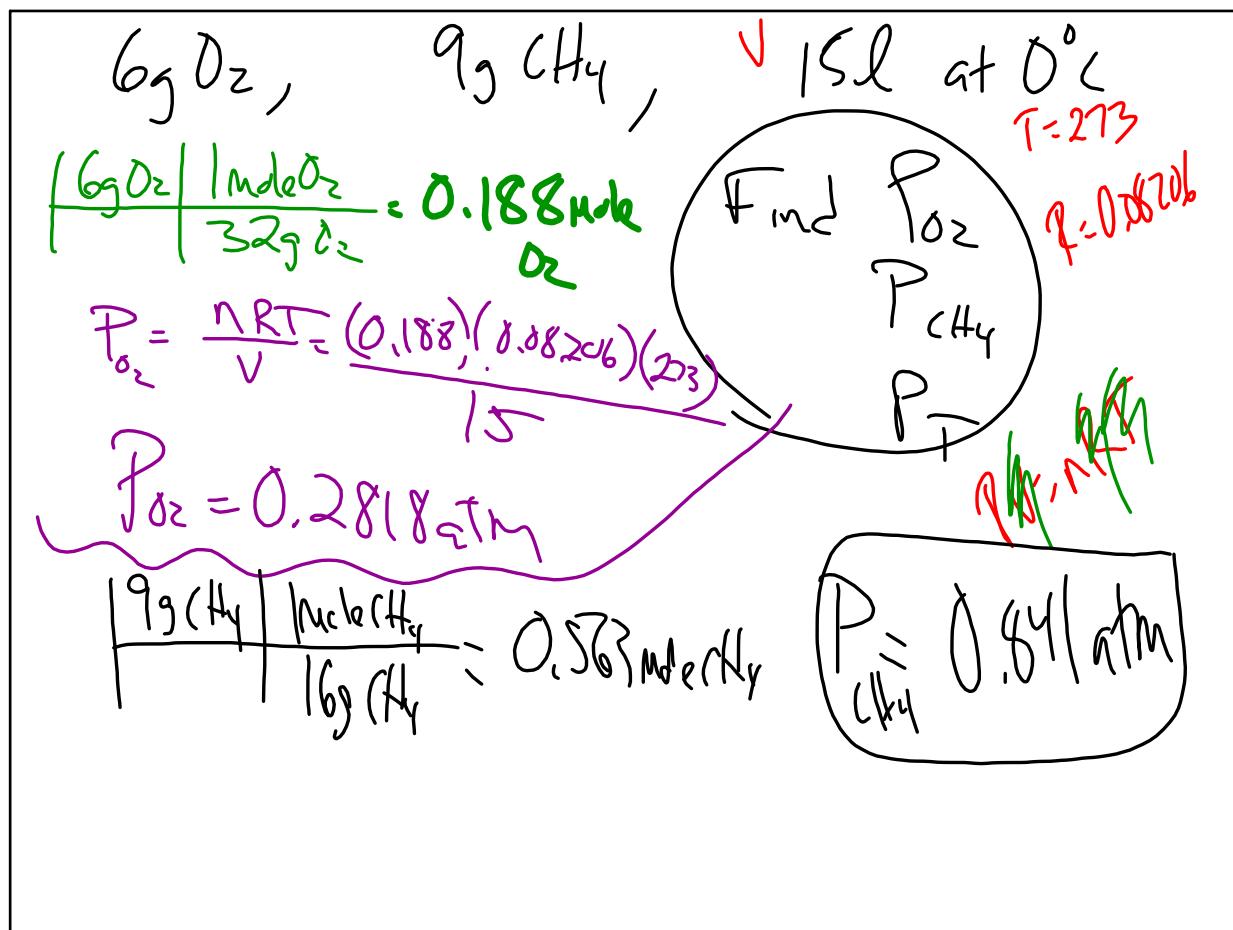
$$\frac{P_{\text{O}_2}}{P_T} = \frac{n_{\text{O}_2}}{n_T}$$

$\Rightarrow P_{\text{O}_2} = \left( \frac{n_{\text{O}_2}}{n_T} \right) P_T$

Part / Whole = mole fraction

fraction of whole thing

Dec 6-9:02 AM



Dec 6-9:08 AM

$$10/43 + 62$$

Dec 6-9:15 AM