Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 7C – Pressure Conversions 20 Points

Convert the following volume and pressure units to their new values based on the conversion factors provided.

Pressure Conversions

Conversion Factors	1atm = 760mmHg = 760torr = 101.3kPa = 14.7psi

Convert 2.48atm $Br_2(g)$ to mmHg $Br_2(g)$	
$2.48\ atm\ Br_2$	$760\ mmHg\ Br_2$
	$1\ atm\ Br_2$
mmHg $Br_2(g)$ =	$1884.8\ mmHg\ Br_2$

$= \frac{2.48 \times 760}{1}$

$= 1884.8$

rnd to "1"

Convert 1540.39mmHg $SO_3(g)$ to atm $SO_3(g)$	
atm $SO_3(g)$ =	

Convert 4.28atm $CH_4(g)$ to kPa $CH_4(g)$	
kPa $CH_4(g)$ =	

Convert 482.48kPa $C_2H_4(g)$ to atm $C_2H_4(g)$	
atm $C_2H_4(g)$ =	

Convert 8.28atm $F_2(g)$ to psi $F_2(g)$	
psi $F_2(g)$ =	

Convert 52.49psi $O_2(g)$ to atm $O_2(g)$	
atm $O_2(g)$ =	

Convert 913.29mmHg $Cl_2(g)$ to kPa $Cl_2(g)$	
$913.29\ mmHg\ Cl_2$	$101.3\ kPa\ Cl_2$
	$760\ mmHg\ Cl_2$
kPa $Cl_2(g)$ =	$121.73\ kPa\ Cl_2$

$\frac{913.29 \times 101.3}{760} = 121.7319\ldots$

(2)

Convert 205.48kPa $NO_3(g)$ to mmHg $NO_3(g)$	
mmHg $NO_3(g)$ =	