Name _____ Period _____

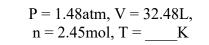College Prep Chemistry of the Earth

Assignment 6H – *Ideal Gas Law*   20 Points

Complete the following problems based on the ideal gas law

Ideal Gas Law Forms				
$PV = nRT$	$P = \dfrac{nRT}{V}$	$V = \dfrac{nRT}{P}$	$n = \dfrac{PV}{RT}$	$T = \dfrac{PV}{nR}$

Ideal Gas Constant [R]	$R = 0.0821 \ \dfrac{L \cdot atm}{mol \cdot K}$

P = 1.48atm, V = 32.48L,
n = 2.45mol, T = _____K

T =

T =

P = 6.39atm, V = 21.82L,
n = _____mol, T = 428.43K

n =

n =

P = _____atm, V = 26.74L,
n = 0.93mol, T = 327.38K

P =

P =

P = 0.82atm, V = _____L,
n = 0.52mol, T = 283.58K

V =

V =

P = 3.47atm, V = 51.93L,
n = _____mol, T = 475.25K

n =

n =

P = 5.27atm, V = _____L,
n = 4.38mol, T = 538.49K

V =

V =

	P = ____atm, V = 42.50L, n = 3.74mol, T = 613.58K			P = 21.85atm, V = 6.28L, n = 0.94mol, T = ____K

P =	
P =	

T =	
T =	