	Homework 1
The average human lung expands by about 0.50 LL during each breath.	Work = -p x Δ = -(1.0)x(0.50L)atm = -0.50Lxatm Conversion of 1 Lxatm → J = /101.325 = -50.66 or rounded to -51
The air within a piston equipped with a cylinder absorbs 545 JJ of heat and expands from an initial volume of 0.11 LL to a final	W = -p x ΔV ΔV= 0.88-0.11 =.77L =-1 x 0.77 =-77L x atm x 101.325 =-78.02J ΔE= change in internal energy q=heat=545J
volume of 0.88 LL against an external pressure of 1.0 barbar.	$W = 78.02$ $\Delta E = q + w$ $= 545 + (-78.02)$ $= 466.98J$ $= 467J$
A gas is compressed from an initial volume of 5.35 LL to a final volume of 1.23 LL by an external pressure of 1.00 barbar. During the compression, the gas releases 121 JJ of heat.	$\Delta E = q + w$ $q=-121$ Calc work done $w = p^* \Delta V$ 1 atm = 1.01*10^5 Pa, and 1 liter = 10^-3 m^3, so: $W=(1.01^10^5 N/m^2)^*(5.35 - 1.24)^*10^-3 m^3$ = 415.11J So $\Delta E = -121 + 415.11$ 294 But with correct values its 291
What is the work associated with decomposition of trinitrotoluene (TNT) upon detonation according to the following reaction at 281.65 KK? C7HSN3O6(s)—32N2(g) +52H2(g)+3O2(g)+7C(s)	1 mole C7H5N3O6 gives 3/2 moles N2 and 5/2 moles H2 and 3 moles O2 gas Total gas moles produced = N2 moles + H2 moles + O2 moles = 1.5 + 2.5 + 3 = 7 work done = - P x dV where dV is change in volume we use ideal gas equation PV = nRT (since V is nothing but volume occu all gases) work done = - nRT where R = gas constant = 0.08206 liter atm/molK = - 7 mol x 0.08206 liter atm/molK x 281.65 = - 162.8500 atm liter /mol we have 1 atmliter = 101.325 J hence work done = - 162.8500 atm liter /mol x (101.325 J/atmliter) = - 16500 J/mol

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