Pressure Units ANSWER KEY

1) 73kPa
2) 3.21atm
3) 48.0torr

4) 2800mmHg
5) 304.5kPa
6) 1410mmHg

Kelvin Temp ANSWER KEY

1) 299.0K
2) -173K
3) 146K
4) 127°C

5) 408K
6) -269°C
7) 706K or 433°C

Charles' Law Worksheet ANSWER KEY

1)   0.47 L
2)   0.71 L
3)   285 mL

4)   1.81 L
5)   2.35 L
6)   51,800 K

7) The temperature is 298.5 K = 0.5^{0} C. A jacket would be appropriate clothing for this weather.

Boyles' Law – ANSWER KEY

1) 2.11 atm
2) 2.0×10^{5} L
3) 3.33×10^{-5} L
4) 72.7 L

5) 2.0×10^{3} L
6) 600 L
7) 72 L
8) V = 0.25 L, yes

Avogadro's Law - Answer Key

1) 21.6 L
2) 16.8 L
3) 435 L
4) 2.59g

Dalton's Law – Answer Key

1) 9.00 atm
2) 1.20 atm He, 2.80 atm Ar
3)   A. 15.00 mol   B. 19.98 mol   C. 34.98 mol   D. don't do
     E. 0.5712 X_{He} F. 3.00 atm   G. 4.00 atm

Gay-Lussac's Law – Answer key

1) P_2 = 1.03 atm. Therefore the ΔP = 0.03 atm.
2) 0.313 atm
3) 340.3 K (67.3 ^{o}C)
4) 634.2 mm Hg
5) 317.9 K (44.9 ^{o}C)

6) 3.31 atm
7) 1.06×10^{3} mm Hg
8) 173 kPa
9) 30.4 atm