

Quiz 9.1 – Gas Laws

Name: _____

Problem 1

A gas occupies 2.50 *L* at 0.95 *atm* of pressure and a temperature of 274.5 *K*. After a change in *P*, *V*, and *T* the new volume is 5.45 *L* and the new pressure is 0.67 *atm*. What is the new temperature?

Problem 2

A gas occupies 1.75 *L* at 1.24 *atm* of pressure and a temperature of 12.4°C. After a change in *P*, *V*, and *T* the new volume is 1.38 *L* and the new temperature is 53.5°C. What is the new pressure?

Problem 3

How many moles of gas are in each of the two gas samples from Problem 1 and Problem 2

Pioneers

By Carol Lynn Pearson

My people were Mormon pioneers.
Is the blood still good?
They stood in awe as truth
Flew by like a dove
And dropped a feather in the West.
Where truth flies you follow
If you are a pioneer.
I have searched the skies
And now and then
Another feather has fallen.
I have packed the handcart again
Packed it with the precious things
And thrown away the rest.
I will sing by the fires at night
Out there on uncharted ground
Where I am my own captain of tens
Where I blow the bugle
Bring myself to morning prayer
Map out the miles
And never know when or where
Or if at all I will finally say,
"This is the place,"
I face the plains
On a good day for walking.
The sun rises
And the mist clears.
I will be all right:
My people were Mormon Pioneers.