

Gases and Moles

Date: _____
Hour: _____**Information: The Gas Constant**

We previously examined the fact that $\frac{PV}{T}$ is a constant as long as the number of moles of a gas remains unchanged.

This means that any time you measure a gas, the pressure times the volume divided by the temperature (in Kelvin) will always equal the same number unless the amount of gas in the container changes. We are now going to explore how the pressure, volume and temperature depend on the number of moles of gas that are present.

Table 1: Experimental Data for Three Different Samples of Gas That Contain the Same Amount of Gas (# of moles of gas is constant)

Gas	# of moles of Gas in container (mol)	Volume of Container (L)	Temperature of Gas (K)	Pressure of Gas (kPa)
A	0.3008	14.0	672.0	120.0
B	0.3008	16.0	1280	200.0
C	0.3008	10.0	340.0	85.0

Table 2: Experimental Data for Three Different Samples of Gases That Contain Different Amounts of Gas (# of moles of gas is not constant)

Gas	# of moles of Gas in container	Volume of Container (L)	Temperature of Gas (K)	Pressure of Gas (kPa)
D	3.3485	40.0	230.0	160.0
E	0.7306	22.5	315	85
F	0.85950	16.0	280	125

Critical Thinking Questions

1. Prove that $\frac{PV}{T}$ is a constant for the data in Table 1, but not a constant for the data in Table 2.

2. Why is $\frac{PV}{T}$ a constant in Table 1, but not in Table 2?

Chemquest 36 Gases And Moles Answer Key

A Gutmann

Chemquest 36 Gases And Moles Answer Key:

Chemquest 36 Gases And Moles Answer Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chemquest 36 Gases And Moles Answer Key**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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