

GAS & 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 (8 mol moles of gas is constant)

Gas	# of moles of Gas in container (mol)	Volume of Container (L)	Temperature of Gas (K)	Pressure of Gas (atm)
A	8.0000	10.0	273.0	1.200
B	8.0000	15.0	1200	200.0
C	8.0000	10.0	540.0	0.500

Table 2: Experimental Data for Three Different Samples of Gases That Contain Different Amounts of Gas (8 mol moles of gas is not constant)

Gas	# of moles of Gas in container	Volume of Container (L)	Temperature of Gas (K)	Pressure of Gas (atm)
D	3.5483	40.0	273.0	1.000
E	0.7406	12.5	515	0.5
F	0.00050	10.0	200	1.25

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?

Chapter 14 The Behavior Of Gases Worksheet Answers

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Chapter 14 The Behavior Of Gases Worksheet Answers:

Adopting the Tune of Expression: An Psychological Symphony within **Chapter 14 The Behavior Of Gases Worksheet Answers**

In a global taken by monitors and the ceaseless chatter of fast conversation, the melodic elegance and psychological symphony produced by the written word frequently diminish in to the backdrop, eclipsed by the constant noise and disturbances that permeate our lives. Nevertheless, located within the pages of **Chapter 14 The Behavior Of Gases Worksheet Answers** an enchanting fictional treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this interesting masterpiece conducts viewers on a psychological journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths with this poignant examination, we will explore the book is key harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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