

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 6E – Boyle's Law

20 Points

Complete the following problems based on Boyle's Law ($P_1V_1 = P_2V_2$)

Boyle's Law Forms

Boyle's Law Forms	$P_1 = \frac{P_2V_2}{V_1}$	$V_1 = \frac{P_2V_2}{P_1}$	$P_2 = \frac{P_1V_1}{V_2}$	$V_2 = \frac{P_1V_1}{P_2}$
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$P_1 = 3.49\text{atm}, V_1 = 2.58\text{L}$ $P_2 = 5.28\text{atm}, V_2 = \underline{\hspace{1cm}}\text{L}$
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$V_2 =$	

$V_2 =$	
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$P_1 = 0.93\text{atm}, V_1 = 1.82\text{L}$ $P_2 = \underline{\hspace{1cm}}\text{atm}, V_2 = 2.48\text{L}$
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$P_2 =$	

$P_2 =$	
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$P_1 = \underline{\hspace{1cm}}\text{atm}, V_1 = 5.15\text{L}$ $P_2 = 0.82\text{atm}, V_2 = 3.48\text{L}$
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$P_1 =$	

$P_1 =$	
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$P_1 = 1.39\text{atm}, V_1 = \underline{\hspace{1cm}}\text{L}$ $P_2 = 3.43\text{atm}, V_2 = 4.84\text{L}$
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$V_1 =$	

$V_1 =$	
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$P_1 = 8.27\text{atm}, V_1 = 1.57\text{L}$ $P_2 = 11.32\text{atm}, V_2 = \underline{\hspace{1cm}}\text{L}$

$V_2 =$	

$V_2 =$	
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$P_1 = 2.48\text{atm}, V_1 = \underline{\hspace{1cm}}\text{L}$ $P_2 = 4.17\text{atm}, V_2 = 2.73\text{L}$
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$V_1 =$	

$V_1 =$	
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