

Hill-Petrucci
Homework Answers

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6.
 - a. Volume will decrease.
 - b. Volume will decrease
 - c. The effect is uncertain, as the increase in pressure will cause a volume decrease, and the increase in temperature will cause a volume increase.
 - d. The volume will increase.

7.
 - a. The pressure will increase.
 - b. The pressure will increase.
 - c. The pressure will increase.
 - d. The effect is uncertain.

8. The speeds decrease as the temperature decreases.
The pressure decreases as the walls are hit less often.

9.
 - a. Increase V
 - b. Decrease V
 - c. Decrease V
 - d. Decrease V

10. d - PF_3

53.
 - a. 46.9L
 - b. 26.9atm
 - c. 8.64 mg H_2
 - d. 248 kPa

54.
 - a. 1.06×10^3 Torr
 - b. 512 mL
 - c. 249 kg
 - d. 0.836 psi

57. 71.5 L

59. 178 u

73. O_2 is limiting. 4.50 L SO_3

76. 8.78%

89. b