

Unit #8 Practice Blackboard Insert

1. (**2 pt**) A gas has a volume of 5.85 L at a pressure of 525.0 mm Hg. What is the volume of the gas if the pressure is increased to 730.0 mm Hg? The temperature remains constant.
2. (**2 pt**) A sample of gas has a volume of 375.0 mL at 55.0 °C. What is the volume of the gas if the temperature is decreased to 25.0 °C? The pressure remains constant.
3. (**3 pt**) A sample of gas at STP is heated to 35.0 °C. If the volume remains constant, what will the new pressure be?
4. (**3 pt**) 3.65 L of a gas has a pressure of 1.25 ata* at 45.0 °C. What is the pressure if the volume increases to 6.85 L and the temperature decreases to 32.0 °C? (* ata = absolute atmospheres)

Extra Credit (1 pt):

Convert name to formula or visa versa ... from the list of names in unit 5