1. How many moles of gas would be needed to fill up an 8L balloon at 5.6atm and 50˚C?

2. What is the total pressure in a container if the four gases within have partial pressures of 3atm, 6atm, 8atm, and 2atm?

3. If a gas has a volume of 10L at 5atm what would its volume be at 7atm?

4. If a gas has a volume of 8L at STP, what volume would it have at 60˚C and 50kPa?

5. What mass of water vapor is needed to fill a 15L tank at 900mmHg and 30˚C?

6. If a gas has a volume of 20L at STP, at what pressure(in atm) and 23˚C would it take up 25L?

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