**Molar Volume of Gas Practice Questions**

1. What chemical amount of oxygen is available for a combustion reaction in a volume of 5.6L at STP? **(n=0.25 mol)**
2. A propane tank for a BBQ contains liquefied propane. If the tank mass drops by 9.1g after a month’s use, what volume of propane gas at SATP was used for cooking?

*(hint: you will need to find the molar mass of propane C3H8)* **(5.1L)**

1. Helium balloons are less dense than air so they stay aloft and will rise unless tied down by a string. What volume does 3.50g of helium gas occupy at STP? **(19.6L)**
2. Water vapor plays an important role in the weather patterns on Earth. What mass of water must vaporize to produce 1.00L of water vapor at SATP? **(0.727g)**