Post-lab (Molar volume of a gas)  Name ____________________

1. Copper wire was used to hold the piece of magnesium when placed in the acid/water mixture. The Chemistry Department stockroom also has nickel wire. Why was copper wire a better choice than nickel wire for this experiment?

2. How much magnesium is required to produce 5.76 mL of hydrogen gas at 24.5 °C and 759.0 mmHg?

3. Hydrogen gas is produced in a chemical reaction and captured in a graduated cylinder above water. The temperature of the water is 25.0 °C and the atmospheric pressure is 755.2 mmHg. Assuming the gas in the graduated cylinder has the same total pressure as the atmosphere, what is the partial pressure of hydrogen gas?