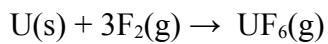


CHM 110 – Gases – Practice Problems**Solve the problems.**

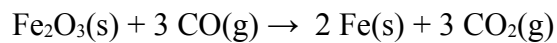
1) 17.5 g of uranium is converted to the gas uranium (VI) fluoride in the following reaction:



What volume of gas is produced at 0.983 atm by this reaction if the temperature is 50.0 °C?

- _____ L UF₆ gas produced.

2) One method for refining iron ore (primarily Fe_2O_3) involves using a blast furnace to react the iron ore with carbon monoxide to produce iron.



What volume of carbon dioxide gas (at 2.50 atm and 300.0°C) is produced when 6413 grams of pure Fe is made?

- _____ L of CO_2 is produced.

3) What pressure would be produced by 15.5 grams of chlorine gas (Cl_2) contained in a 10.0L container kept at 21.0 °C?

- _____ atm pressure from the Cl_2 .