## **Honors Chemistry: Gases 5 Podcast Problem Set**

1. What pressure will be exerted by 0.450 mol of a gas at 25°C if it is contained in a vessel whose volume is 650mL?	
2. What volume will 12.0 g of oxygen gas (O <sub>2</sub> ) occupy at 25°C and a pressure of 0.520 atm?	
3. If 4.5 g of methane (CH <sub>4</sub> ) is introduced to an evacuated 2.00L container at 35°C, what is the pressure in the container in atmospheres?	ıe
4. A 5.00 L flask at 25° C contains 0.200 mol of Cl <sub>2</sub> . What is the pressure in the flask?	
5. What is the pressure exerted by 32 g of O <sub>2</sub> in a 20-L container at 30.0°C?	
6. How many moles of $N_2$ are in a flask with a volume of 250 mL at a pressure of 0.56 atm and a temperatur of 300 K?	e