## CHEM 191 Workshop 1.2: Gases

Name:	
Please complete this worksheet and turn it in by the en Refer to Chemistry: Atoms First Sections 8.1, 8.2, & 8	
1. The atmospheric pressure on Mars was measured is this pressure in torr and hPa?	to be about 6.50 millibar (1 bar = $0.997$ atm). What
2. Read the pressure on the manometer in the room	n and report the pressure in:
• mmHg:	
• atm:	
• hPa:	
• mbar	

3.	What is the volume of 1 mol of $\mathrm{CO}_2$ at STP?
4.	Car airbags are inflated with nitrogen gas, formed through decomposition of sodium azide (NaN $_3$ ). What is the volume of nitrogen gas produced through the decomposition of 125 g sodium azide at 27°C
	and 756 torr?
5.	The mixing ratio of ozone at ground level is usually about 20 ppb. Express this as a partial pressure of ozone with respect to the atmosphere as a whole.