Chem Gas Worksheet #1. Blk Name	
Data to know & use! 1atm=760.mmHg=101.325kPa=14.7lb/in², or by 1989 definition Standard Pressure = 100.kPa=750.1mmHg=14.5lb/in² = 0.987atm= 1Bar. 1mole gas @STP = 22.4L =22,400cm³. STP=0°C, 1atm. 0 K = -273.15°C = -459.67°F. 1mole gas @ SATP = 24.8L =24,800cm³, Standard Ambient Temp. & Pressure= 100.kPa, 25°C.	
A. Pressures. Show a unit cancellation setup. WATCH SIG. FIGS.	
a. 412 mmHg = atm.	
b. 760. KPa = mmHg	
c. 14.7 atm = kPa	
d. $101.325 \text{ lb/in}^2 = $ kPa	Atmospheric
e. 22.4 mmHg = kPa	Pressure
B. Manometers.  Gas  Mercury  Mercury	
Closed end manometer Open end manom	neter
a. In a closed end manometer, the mercury level was 690. mm higher on the closed end than on What was the pressure of the gas?	the gas side.
	the gas sidemmHg
What was the pressure of the gas?	-
What was the pressure of the gas?  b. In a closed end manometer, the Hg levels were 419 mm different. What was the gas pressure?  c. In a closed end manometer, the Hg levels were 1273 mm different. What was the	mmHg
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