	Name	Date	_ Hour
	Gas Laws – Mixed Pr	actice	
1.	Make the following conversions. Show work.		
	a. 165 kpa to atmospheres	b. 6.41 atm to kilopa	scals
	c50°C to Kelvin	d. 500 K to °C	
2	A comple of earlier disvide equippe a values of 2	50 L at 105 kDa 10/bat	mman a una una ulai Ala
۷.	A sample of carbon dioxide occupies a volume of 3.9 gas exert if the volume was decreased to 2.00 L?	ou L at 125 kPa. VVnat	pressure would the
3.	Oxygen gas is at a temperature of 40°C when it occ temperature should it be raised to occupy a volume		. To what
4.	A steel container has an initial pressure of 1.50 atm temperature of the container is raised to 121°C?	at 21°C. What will be t	he pressure if the
5.	Hydrogen gas was cooled from 150°C to 50°C. If its original volume?	new volume is 75 mL,	what was its

6.	A 2.0 L container of nitrogen gas had a pressure of 3.2 atm. What volume would be necessary to decrease the pressure to 1.0 atm?
7.	The pressure inside a container is 102.6 kPa at a temperature of 57°C. What would the pressure be at 75°C?
8.	A sample of neon at 50°C in a 2.5 L balloon is cooled to 25°C. What is the new volume of the balloon?
9.	A steel container is at a temperature of 112°C. When it is heated to 224°C, the pressure was 288 kPa. What was the initial pressure in the container?
10	Batman notices that one of the tires on the Batmobile is low on a morning when the temperature in the Batcave is -8°C. He determines the volume of the tire to be 15 L. Yesterday afternoon, however, when Robin bought that tire new, the tire was inflated properly to a volume of 20 L. What was the temperature yesterday when Robin bought the tire?