The Ideal Gas Law 2

	Name:
1) 25 g of water is heated to 110 $^{\circ}C$ and is confined to a volume of 1500 ml. the container?	
2) At what temperature is 0.78 grams of CO_2 , when it is placed in a 500 ml pressure?	container at 1.97 atm of
3) Helium is collected at a high pressure of 14.3 atm. A 100 L tank is filled How many moles of He gas are collected?	at the freezing point of water
4) From problem #3, suppose the tank was emptied, and allowed to dispers pressure, approximately 77 $^{\circ}$ F and .98 atm. Using the amount of moles coll gas occupy?	

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•	al gas law to det	termine the volu	ume of gas initially in	the sample.	
b) use the idea	al gas law to de	termine the vol	ume of gas after the	sample is heated.	
	decomposition, sure of 33 psi a		lled with N₂ gas. How	many grams of N	l ₂ are there in a 16.4 L
	ble balloon Snoo		's Thanksgiving Day P	arade contains 75	5.7 kg of He at STP.
Answers:	1) 29.1 atm	2) 677 K	3) 63.8 moles	6) 42.9 g	7) 424000 L