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C	hemist	y: <i>11</i>	ie ideai	Gas La	iw										
<u>D</u>	irections:	Solve	each of th	e followir	ng proble	ems. SI	how you	r work, ir	ncluding	proper u	nits, to ea	arn full d	credit.		
1.	. If 3.7 mo doe		oropane a ample oc		emperatu	re of 28	°C and	are unde	er 154.2 l	∢Pa of pr	essure, w	/hat vol	ume		
2.	. A sampl of o		rbon mon monoxide					n of pres	sure take	es up 85.	3 L of spa	ace. W	hat mass		
3.	. At –45°0	C, 71 g	of fluorine	gas take	e up 6843	3 mL of	space.	What is	the pres	sure of th	ne gas, in	kPa?			
4.	. At 971 n in °	nm Hg, C?	145 g of	carbon di	oxide ha	ve a vo	lume of	34.13 dr	n³. Wha	t is the te	emperatu	re of the	e sample,		
5.	. At 137°0 spa	C and u ace. W	nder a pro hat is the	essure of gas?	3.11 atm	n, a 276	i g samp	ole of an	unknowr	n noble g	as occup	ies 13.4	46 L of		

Answers: 1. 60.0 L 2. 59 g CO 3. 517.6 kPa 4. -112°C 5. radon