Lab 7: Spirometry

Name:						_			
1. Measurin	g Respirat	ory Volume	es						
		Subject	TV	IRV	ERV	VC	TV+IRV+	-ERV	
0 F	TT: 1 G	anacity.							
2. Estimatir	ng Vital Ca	apacity							
	Subject	VC estim	ate met	thod 1	VC	estima	te method 2	VC measur	red
3. Why do t	the values	of VC from	the di	fferent	metho	ds not	match prec	isely?	
4. Lung Ver		01 , 0 11011			, 11100110	as 1100	moon proc	15019	
Subject Breat	hing Rate	breath / m	nin]	TV	[L / br	eath]	RMV	[L / min]	PV[L / min]
	0	,	,		. / -			L / J	. [/]
5. How muc	h air does	a person a	pproxir	nately	expire	per ho	our? per day	? per week?	per year?
		retion of gas 14,500 liters		u are l	ocked i	n an ai	rtight room	that is 8 ft by	8 ft by 8 ft, i.e. has
• How man	y liters of	f oxygen ar	e in the	e room	n?				
- Corroro gre	mntoma of	low ourres	a hogin	rrh on	oin bog	ahaut	10.507	en (it's estual	lly higher then that
but we'll	simplify fo	or this). Ho	w long	would	l it take	you t	o consume e	enough oxyger	lly higher than that in to bring the room is 25 mL of oxygen.

7. Per breath you also $\mathbf{produce}$ about 25mL of CO_2 . Given an average life expectancy of 78 years, how

many **tons** of carbon dioxide do you exhale over your life time?