Metric System & SI Units

Name	



Scientists all over the world use the same system of units so they can communicate information clearly. This system of measurement is called the International System of Units (SI). Metric measurement is based on the number ten and makes calculations with the system relatively easy. By using the following conversion chart, converting from one unit to another is done simply by moving the decimal point:



Mega- M	*	*	kilo- k	hecto- h	deka- dk		deci- d	cent c	i- mil m		* *	*	micro- μ	*	*	nano- n	
The blank The unit for The unit for	or le or m	eng [.]	th is t is the	he meter e gram (g	(m).).	rsion char	The	unit 1	for tim	ne is	the	e se	t we are cond (s))			
PART A																	
What type	of	me	asurer	nent is in	dicated	by each of	the foll	owing	units?	Ch	oice	es a	re in th	e las	t co	lumn.	
1. ms				4	. g		7. M b									formation	
2. s				 5	. cm³			8.	L							ength nass	
3. km					. mm				kg	_					†	ime olume	
PART B For each of the follows				_	•					•			•			o complete at all.	
mil	milliliter				milligram			kilob			oyte				centimeter		
kilo	kilogram				millimeter			second				gram					
me	ter	rliter						Megabyte									
1. <i>C</i> o	as r	nay	be pu	rchased	in two or	three	bott	tles.									
2. Th	e m	ass	of a b	owling bo	all is 7.25	ō											
3. Th	e le	ngt	h of t	ne commo	on house	fly is abou	† 1	_·									
4. Th	e m	ass	of a p	aperclip	is about	1											
5. On	e te	easp	oon o	f cough s	yrup has	a volume	of 5	·									
			•	arms ra 1		to your sid	de. The	distar	ice fro	m yo	our	nos	e to you	ır ou	tstr	etched	
			istical tes.	basis, sn	noking a	single ciga	rette lov	vers y	our lif	e ex	rpeo	ctan	icy by 6	42,0	00 _	, or	
8. A 4	1 mi	nut	e sono	saved oi	n the con	nputer is o	bout 50	00									

PART C

Convert the following metric measurements:

10) 75 mL =
$$\mu$$
L

22) 27.5
$$\mu$$
g = ____ cg