The metric System

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metric system is an internationally agreed decimal system of measure.

prefixes	symbols	sub multiples
Tera	T	10^{12} ← amount of zeros
giga	G	10^{9}
Mega	M	10^{6}
Kilo	K	10^{3}
hecto	h	10^{2}
deka	da	10
deci	d	10^{-1}
Centi	c	10^{-2}
Milli	M	10^{-3}
micro	μ	10^{-6}
Nano	n	10^{-9}
Pico	p	10^{-12}
Femto	F	10^{-15}
Atto	a	10^{-18}

Ex 1 $6g = \_\_\_ mg$ there are 1000 mg in a gram

to convert g to mg we move the decimal points 3 places to the right

6.000.

or multiply by 1000 $(6)(1000) = 6000.$

$6g = 6000.mg$

Conversions

Milimeter → centimeter → meter → kilometer

distances

miligram → gram → kilogram

mass

mililiter → liter → kiloliter

Volume

Seconds → minutes → hours → day → week → month → year

time

$5\ min \rightarrow sec = \frac{5\ min}{1\ min} \left| \frac{60\ s}{} \right. = 300\ s$

$5\ km \rightarrow meter = \frac{5\ km}{1\ km} \left| \frac{1000\ m}{} \right. = 5000\ m$

$1000\ gram \rightarrow kg = \frac{1000\ g}{1000\ g} \left| \frac{1\ kg}{} \right. = 1\ kg$

$75\ km/hr \rightarrow m/s = \frac{75\ km}{1\ hr} \left| \frac{1000\ m}{1\ kg} \right| \frac{1\ hr}{60\ min} \left| \frac{1\ min}{60\ s} \right. = 20.8\ m/s$

$55L \rightarrow kL = \frac{55L}{1000L} \left| \frac{1\ kL}{} \right. = .055\ kL$