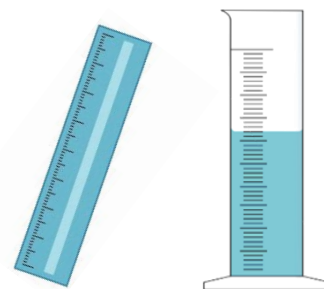


## Quick Metric System Summary

**THE MOST COMMON METRIC PREFIXES**

Prefix	Prefix Name	To Recall	Value	Decimal	Exponential
<b>k</b>	kilo	--	X 1000	1000	$10^3$
<b>d</b>	deci	decade	1/10th	.1	$10^{-1}$
<b>c</b>	centi	century	1/100th	.01	$10^{-2}$
<b>m</b>	milli	millenium	1/1000th	.001	$10^{-3}$
<b>μ</b>	micro	--	1 millionth	.000001	$10^{-6}$
<b>n</b>	nano	<u>N</u> anos	1 billionth	--	$10^{-9}$

**METRIC UNITS****Using Prefixes**

decimeter (dm) = 1/10th of a meter =  $10^{-1}$  m, centimeter (cm) = 1/100th meter =  $10^{-2}$  m

**Magnitude**

milli =  $1/1000^{\text{th}}$  or  $10^{-3}$ , micro =  $10^{-6}$ , nano (n) =  $10^{-9}$ , and kilo = 1000x or  $10^3$

**Length (meters, "m")**

1 meter = 39.37 in      1 inch = 2.54 cm      1 kilometer = 0.621 miles

**Mass (grams, "g")**

28.35 grams = 1 oz      1 oz = 0.03527 g      1 lb = 2205 g      2.205 kg = 1 lb

**Volume (liters, "L")**

1 L = 1.057 qt      1 mL = 1 cm<sup>3</sup> (cubic centimeter)      1 in<sup>3</sup> (cubic inch) = 16.4 mL