Becki W. & Ami S. ~ 5/20/2007

Dimensional Analysis

Length

Metric

kilometer

meter

centimeter

millimeter

English

mile

yard

inch

foot

2.54 cm = 1 in

12 in = 1 ft
3 ft = 1 yd
36 in = 1 yd
5280 ft = 1 mi

Metric Prefixes	
Tera- T	10^{12}
Giga- G	10^{9}
Mega- M	10^{6}
kilo- k	10^{3}
hecto- h	10^{2}
deca- da	10^{1}
1	10^{0}
deci- d	10^{-1}
centi- c	10^{-2}
milli- m	10^{-3}
micro- µ	10^{-6}
nano- n	10^{-9}
pico- p	10^{-12}
fempto- f	10^{-15}

Mass

Metric

kilogram

gram

milligram

English

ton

pound

ounce

453.6 g = 1 lb

16 oz = 1 lb
2000 lb = 1 ton

Metric Prefixes	
Tera- T	10^{12}
Giga- G	10^{9}
Mega- M	10^{6}
kilo- k	10^{3}
hecto- h	10^{2}
deca- da	10^{1}
1	10^{0}
deci- d	10^{-1}
centi- c	10^{-2}
milli- m	10^{-3}
micro- µ	10^{-6}
nano- n	10^{-9}
pico- p	10^{-12}
fempto- f	10^{-15}

Volume

Metric

kiloliter

liter

milliliter
OR
cubic centimeter

English

gallon

quart

pint

fluid oz.

.9463 L = 1 qt

32 oz = 1 qt
4 cups = 1 qt
2 pts = 1 qt
4 qts = 1 gal
16 oz = 1 pt
8 oz = 1 cup

1 mL = 1 cm^3
1 L = 1 dm^3

Metric Prefixes	
Tera- T	10^{12}
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