



Common Conversions

VOLUME

U.S.		Metric (si)		U.S.→Metric	
1 qt/4 cups	4 cups/1 qt	1 L/1000 ml	1000 ml/1 L	1 qt/946 ml	946 ml/1 qt
1 qt/2 pints	2 pints/1 qt	1 dL/100 ml	100 ml/1 dL	1L/1.06 qt	1.06 qt/1 L
1 gallon/4 qts	4 qts/ 1 gallon	1 ml/1 cc	1 cc/1 ml		

MASS

U.S.		Metric (si)		U.S.→Metric	
1 lb/16 oz	16 oz/1 lb	1 kg/1000 g	1000 g/1 kg	1 lb/454 g	454 g/1 lb
		1 g/1000 mg	1000 mg/1 g	2.20 lb/1 kg	1 kg/2.20 lb

LENGTH

U.S.		Metric (si)		U.S.→Metric	
1 ft/12 inch	12 inch/1 ft	1 km/1000 m	1000m/1 km	1 in/2.54 cm	2.54 cm/1 in
1 yard/3 ft	3 ft/1 yard	1 m/100 cm	100 cm/1 m	39.4 in/1 m	1 m/39.4 in
1 mi/5280 ft	5280 ft/1 mi	1 cm/10 mm	10 mm/1 cm	1 km/0.621 mi	0.621 mi/1 km



Common Conversions

Abbreviations

(Math for Pharmacology)

cc = cubic centimeter	qid = 4 times per day
ml = milliliter	bid = 2 times per day
m = minim	
t = teaspoon	
T = tablespoon	
oz = ounce	
L = liter	
pt = pint	
gr = grain	
g = gram	
mg = milligram	
kg = kilogram	
mcg = microgram (also μg)	
lb = pound	

Conversions

(Math for Pharmacology)

1cc = 1ml
 60gtts = 1t
 4cc – ***5cc** = 1t
 ***3t** – 4t = 1T
 15cc = 1T
 2T = 1oz
 30cc = 1oz
 960 – ***1000cc** = 1L
 8oz = 240cc
 240cc = 0.5pt
 1g = 1000mg
 1mg = 1000mcg (or 1000 μg)
 1kg = 2.2lb

* **BOLD** type indicates the most commonly used value.

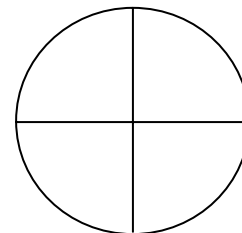
Metric Prefixes

M (mega-)	10^6
k (kilo-)	10^3
h (hecto-)	10^2
da (deka-)	10^1
d (deci-)	10^{-1}
c (centi-)	10^{-2}
m (milli-)	10^{-3}
μ (micro-)	10^{-6}
n (nano-)	10^{-9}
p (pico-)	10^{-12}

Grains to Milligrams

(Math for Pharmacology)

1 grain = 60 mg



$\frac{3}{4}$ grain = 45 mg

$\frac{1}{4}$ grain = 15 mg

$\frac{1}{2}$ grain = 30 mg

Concentration

(Math for Pharmacology)

Ratio

Percent

$$x : y \rightarrow \frac{x \text{ gram}}{y \text{ milliliter}}$$

$$x\% \rightarrow \frac{x \text{ gram}}{100 \text{ milliliter}}$$

$$1 : 1000 \rightarrow \frac{1g}{1000ml}$$

$$10\% \rightarrow \frac{10g}{100ml}$$