

## CONVERSION FORMULAS FOR UNITS OF LENGTH, AREA, VOLUME, AND WEIGHT

kilometer	km	1000 m	square kilometer	$km^2$	1000000 $m^2$
meter	m	1 m	hectare	ha	10000 $m^2$
decimeter	dm	.1 m	are	a	100 $m^2$
centimeter	cm	.01 m	square meter	$m^2$	1 $m^2$
millimeter	mm	.001 m	square centimeter	$cm^2$	.0001 $m^2$
micrometer	mcm/ $\mu m$	.000001 m			

mile	mi	5280 ft	square mile	$mi^2$	640 a.
fathom	fm	6 ft	acre	a.	4840 $yd^2$
yard	yd	3 ft	square yard	$yd^2$	9 $ft^2$
foot	ft	12 in	square foot	$ft^2$	144 $in^2$
inch	in	1 in	square inch	$in^2$	1 $in^2$

1 km = .6214 mi	1 mi = 1.609 km	1 $km^2$ = .386 $mi^2$	1 $mi^2$ = 2.59 $km^2$
1 m = 39.37 in	1 yd = .9144 m	1 ha = acre	1 a. = 4047 $m^2$
1 cm = .3937 in	1 ft = 30.48 cm	1 a = 119.6 $yd^2$	1 $yd^2$ = .836 $m^2$
1 mm = .03937 in	1 in = 2.54 cm	1 $m^2$ = 1.196 $yd^2$	1 $ft^2$ = 929 $cm^2$
		1 $cm^2$ = .155 $in^2$	1 $in^2$ = 6.45 $cm^2$

kiloliter	kL	1000 L	gallon	gal	4 qt
liter	L	1 L	quart	qt	2 pt
deciliter	dL	.1 L	pint	pt	16 oz
centiliter	cL	.01 L			
milliliter	mL/cc	.001 L			
microliter	mcL/ $\mu L$	.000001 L			

fluid ounce	oz	7.5 dr	tablespoon	T/tbs	3 tsp
fluid dram	dr	64 min	teaspoon	t/tsp	80 gtt
minum	min	1 gtt	drop	gtt	1 min

1 L = .25 gal	1 gal = 3786 mL
1 mL = .002 pt	1 qt = 946.4 mL
	1 pt = 473.2 mL
1 mL = $\frac{1}{30}$ oz	1 oz = 29.57 mL
1 mL = .25 dr	1 dr = 3.94 mL
1 mL = 15 min	1 min = .0625 mL
1 mL = $\frac{1}{15}$ T	1 T = 15 mL
1 mL = .2 t	1 t = 5 mL
1 mL = 15 gtt	1 gtt = .0625 mL

ton	MT	1000 kg	ton		2000 lb
kilogram	kg	1000 g	pound	lb	16 oz
gram	g	1 g	ounce	oz	16 dr
milligram	mg	.001 g	dram	dr	1 dr
microgram	mcg/ $\mu g$	.000001 g			

			1 g = $\frac{1}{454}$ lb	1 lb = 454 g
grain	gr	60 mg	1 g = $\frac{1}{28.35}$ oz	1 oz = 28.35 g
			1 g = $\frac{1}{1.77}$ dr	1 dr = 1.77 g