

Metric

Quantity		
Quantity	Basic Unit Name	Symbol
Length	metre	m
Mass	Gram	g
Time	second	s

Metric System			Length (Metre)		
Prefix	Symbol		Unit	Symbol	= m
mega	m	centimeter	kilometer	km	1 000 m
kilo	k	millimetre	hectometer	hm	100 m
hector	h	1,000	decameter	dam	10 m
deca	da	100	metre	m	1 m
base unit		1	decimeter	dm	0.1 m
deci	d	0.1	0.01 m		
centi	c	0.01	0.001 m		
milli	m	0.001			
micro	u	0.000 001	Mass (Gram)		
Volume (Litre) Capacity			Unit	Symbol	= g
Unit	Symbol	= L	tonne	t	1 000 000 g
kilolitre	kL	1 000 L	kilogram	kg	1 000 g
hectolitre	hL	100 L	hectogram	hg	100 g
decalitre	daL	10 L	decagram	dag	10 g
litre	L	1 L	gram	g	1 g
deciletre	dL	0.1 L	decigram	dg	0.1 g
centiliter	cL	0.01 L	centigram	cg	0.01 g
millilitre	mL	0.001 L	milligram	mg	0.001 g
Volume (Cubic Measure)			Area (m ²)		
Unit	Symbol	= m ³	Unit	Symbol	M ²
cubic kilometre	km ³	1 000 000 000 m ³	square kilometre	km ²	1 000 000 m ²
cubic hectometre	hm ³	1 000 000 m ³	square hectometre	hm ²	10 000 m ²
cubic decametre	dam ³	1 000 m ³	square decametre	dam ²	100 m ²
cubic metre	m ³	1 m ³	square metre	m ²	1 m ²
cubic decimetre	dm ³	0.001 m ³	square decimetre	dm ²	0.01 m ²
cubic centimetre	cm ³	0.000 001 m ³	square centimetre	cm ²	0.0001 m ²
cubic millimetre	mm ³	.000 000 001 m ³	square millimetre	mm ²	0.000 001 m ²

Metric to Imperial Conversions

Length			Area			
Metric	=	Imperial	Metric	=	Imperial	
1 millimetre [mm]		0.03937 in	1 sq cm [cm2]	100 mm2	0.1550 in2	
1 centimetre [cm]	10 mm	0.3937 in	1 sq m [m2]	10,000 cm2	1.1960 yd2	
1 metre [m]	100 cm	1.0936 yd	1 hectare [ha]	10,000 m2	2.4711 acres	
1 kilometre [km]	1000 m	0.6214 mile	1 sq km [km2]	100 ha	0.3861 mile2	
Imperial	=	Metric	Imperial	=	Metric	
1 inch [in]		2.54 cm	1 sq inch [in2]		6.4516 cm2	
1 foot [ft]	12 in	0.3048 m	1 sq foot [ft2]	144 in2	0.0929 m2	
1 yard [yd]	3 ft	0.9144 m	1 sq yd [yd2]	9 ft2	0.8361 m2	
1 mile	1760 yd	1.6093 km	1 acre	4840 yd2	4046.9 m2	
1 int nautical mile	2025.4 yd	1.853 km	1 sq mile [mile2]	640 acres	2.59 km2	

imperial ->		metric
1 sq inch [in2]		6.4516 cm2
1 sq foot [ft2]	144 in2	0.0929 m2
1 sq yd [yd2]	9 ft2	0.8361 m2
1 acre	4840 yd2	4046.9 m2
1 sq mile [mile2]	640 acres	2.59 km2