

## ENGLISH TO METRIC STANDARDS

To Convert	into	Multiply By
<b>Lengths</b>		
inches	mm	25.4
inches	cm	2.54
inches	meters	0.0254
feet	meters	0.3048
yards	km	914.4
yards	meters	0.9144
miles	km	1.609
<b>Surfaces</b>		
square inches	cm <sup>2</sup>	6.452
square inches	m <sup>2</sup>	0.0929
square yards	m <sup>2</sup>	0.8361
square miles	km <sup>2</sup>	2.59
acres	hectares	0.4047
<b>Volumes</b>		
cubic inches	cm <sup>3</sup>	16.387
cubic inches	liters	0.016387
cubic feet	m <sup>3</sup>	0.028317
cubic feet	liters	28.317
cubic yards	m <sup>3</sup>	0.7646
liquid ounces	cm <sup>3</sup>	29.57
gallons U.S.A.	m <sup>3</sup>	0.003785
gallons U.S.A.	liters	3.785
<b>Weights</b>		
grams	grams	0.0648
ounces	grams	28.35
ounces	kg	0.02835
pounds	kg	0.4536
pounds	tons	0.000454
tons (U.S.A.)	kg	907.2
tons (U.S.A.)	tons	0.9072
tons (long)	kg	1016.0
tons (long)	tons	1.0160

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To Convert	into	Multiply By
<b>Lengths</b>		
mm	inches	0.03937
cm	inches	0.3937
meters	inches	39.37
meters	feet	3.281
meters	yards	1.093.6
km	yards	1093.6
km	miles	0.6214
<b>Surfaces</b>		
cm <sup>2</sup>	square inches	0.155
m <sup>2</sup>	square inches	10.764
m <sup>2</sup>	square yards	1.196
km <sup>2</sup>	square miles	0.3861
hectares	acres	2.471
<b>Volumes</b>		
cm <sup>3</sup>	cubic inches	0.06102
cm <sup>3</sup>	liquid ounces	0.03381
m <sup>3</sup>	cubic feet	35.314
m <sup>3</sup>	cubic yards	1.308
m <sup>3</sup>	gallons U.S.A.	264.2
liters	cubic inches	61.023
liters	cubic feet	0.03531
liters	gallons U.S.A.	0.2642
<b>Weights</b>		
grams	grains	15.432
grams	ounces	0.03527
kg	ounces	35.27
kg	pounds	2.2046
kg	tons (U.S.A.)	0.001102
kg	tons (long)	0.000984
tons	pounds	2204.6
tons	tons (U.S.A.)	1.1023
tons	tons (long)	0.9842

## Miscellaneous conversions

English measures	Corresponding metric measures
1 foot per second	= 0.3048 meter per second
1 foot per minute	= 0.3048 meter per minute
1 mile per hour	= 1.6093 kilometer per hour
1 pound per foot	= 1.48819 kilo per meter
1 pound per yard	= 0.49606 kilo per meter
1 pound per square inch	= 0.07031 kilo per square centimeter
1 pound per square foot	= 4.88261 kilos per square meter
1 ton per square inch	= 10.93704 metric tons per square meter

### Notes:

Imp. gallon	= 1.200 U.S. gallons	= 4.5436 liters
1 U.S. gallon	= 0.833 Imp. gallons	= 3.7854 liters
1 litre	= 0.220 Imp. gallons	= 0.2642 U.S. gallons

Metric measures	Corresponding English measures
1 meter per second	= 3.2809 feet per second
1 meter per minute	= 3.2809 feet per minute
1 kilometer per hour	= 0.6214 mile per hour
1 kilo per meter	= 0.67196 pound per foot
1 kilo per meter	= 2.01587 pounds per yard
1 kilo per square centimeter	= 14.22282 pounds per square inch
1 kilo per square meter	= 0.20481 pounds per square foot
1 kilo per square millimeter	= 0.63495 ton per square inch
1 metric ton per square meter	= 0.09143

### Notes:

1 (Nautical) mile	= 1.152 miles	= 1.8532 meters
1 FBM (foot board measurement)	= 1/12 cubic feet	= 1'x1'x1'

## Thermometer Comparison

Fahrenh., degrees F	482	392	302	284	266	248	230	212	194	176	158	140	122	104	86	68	50	41	32	23	14	5	0	-4	-13	-22	-31	-40
Cent., degrees C	250	200	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	5	0	-5	-10	-15	-17.8	-20	-25	-30	-35	-40