

## **CONVERSION GUIDE**

## **CONVERSION FORMULAE**

LENGTH	Maritim Ira bara	мото	ΓING	CONVERS	SIONS		
To convert milli-inches into micrometres	Multiply by 25.4	Thosa Ca	nuor	sion shorts ind	icate relative val		Thou oro
inches into millimetres	25.4				should not be us		
inches into centimetres	2.54				an three decima		
inches into metres feet into millimetres	0.0254 304.8	be neede					
feet into centimetres	30.48						
feet into metres	0.3048	FUEL CO			:le/eel		1./4.001
yards into metres	0.9144	L/100km 6.0	=	mile/gal 47.06	mile/gal 10	=	L/100km 28.248
fathoms into metres chains into metres	1.8288 20.1168	7.0	=	40.34	12		23.540
furlongs into metres	201.168	8.0	=	35.30	14	=	20.177
miles, statute into kilometres	201.168	8.5	=	33.22	16	=	17.655
miles, nautical into kilometres	1.852	9.0	=	31.38	18	=	15.693
VALUME & CAPACITY		9.5 10.0	=	29.73 28024	20 22	=	14.124 12.840
To convert	Multiply by	10.5	=	26.90	24		11.710
cubic inches into cubic centimetres	16.387064	11.0	=	25.67	26	=	10.864
cubic inches into litres cubic feet into cubic metres	0.016387 0.0283168	11.5	=	24.56	28	=	10.088
cubic feet into cubic metres	28.316847	12.0	=	23.53	30	=	9.416
cubic yards into cubic metres	0.7645549	12.5 13.0	=	22.59 21.72	32 34	=	8.827 8.308
UK pints into litres	0.5682613	13.5	=	20.92	36	=	7.846
UK quarts into litres UK gallons into litres	1.1365225 4.54609	14.0	=	20.17	38	=	7.433
UK gallons into cubic metres	0.0045461	14.5	=	19.48	40	=	7.062
UK fluid ounces into cubic centimetres	28.413063	15.0	=	18.83	42	=	6.726
AREA		16.0 17.0	=	17.65 16.61	43 44	=	6.561 6.420
To convert	Multiply by	18.0	=	15.69	45	=	6.279
square inches into square millimetres	645.16	19.0	=	14.86	46	=	6.137
square inches into square centimetres	6.4516	20.0	=	14.12	47	=	5.996
square feet into square centimetres square feet into square metres	929.0304 0.092903	21.0	=	13.44	48	=	5.855
square yards into square metres	0.836127	22.0 23.0	=	12.83 12.27	49 50	=	5.713 5.572
square yards into acres	0.083613	23.0	-	12.21	50	_	3.372
acres into square metres	4046.8564	TYRE PR	ESS	URE			
acres into hectares square miles into square kilometres	0.4046856 2.589988	lbf/in	=	kPa	kPa	=	lbf/in
oquare miles and oquare moments	2.000000	25	=	172.36	155	=	22.48
MASS		26 27	=	179.26 186.16	160 165	=	23.20 23.93
To convert	Multiply by 64.79891	28	=	193.05	170	=	24.66
grains into milligrams grains into metric carats	0.323995	29	=	199.95	175	=	25.38
grains into grams	0.064799	30	=	206.84	180	=	26.11
pennyweights into grams	1.555174	31	=	213.74	185	=	26.83
ounces into grams ounces troy into grams	28.349523 31.103477	32 33	=	220.63 227.53	190 195	=	27.56 28.28
ounces into kilograms	0.0283495	34	=	234.42	200	=	29.00
pounds into kilograms	0.4535924	35	i=1	241.31	205	=	29.73
stones into kilograms	6.3502932	17-2-12-2-2-2-2					
hundredweights into kilograms tons into kilograms	50.802345 1016.0469	SPEED	123				1
tons into metric tonnes	1.01605	km/h 5.00	=	mile/h 3.12	mile/h 10	=	km/h 16
tahils into grams	37.799	10.00	=	6.25	15	=	24
kati into kilograms	0.60479	15.00	=	9.37	20	=	32
POWER		20.00	=	12.50	25	=	40
To convert	Multiply by	25.00	=	15.62 18.75	30	=	48
foot pounds-force per second into watt	1.35582 745.7	30.00 35.00	=	21.87	35 40	=	56 64
horsepower into watts foot pounds-force per second into kilowatts	0.001356	40.00	=	25.00	45	=	72
horsepower into kilowatts	0.7457	45.00	=	28.12	50	=	80
horsepower into metric horsepower	1.01387	50.00	=	31.25	55	=	88
VELOCITY		55.00	=	34.37 37.50	60 65	=	96 104
To convert	Multiply by	60.00 65.00	=	40.62	70	=	112
feet per second into centimetres per second	30.48	70.00	=	43.75	75	=	120
feet per second into metres per second	0.3048	75.00	i=1	46.87	80	=	128
miles per hour into kilometers per hour	1.609344	80.00	=	50.00	85	=	136
FORCE		85.00 90.00	=	53.12 56.25	90 95	=	144 152
To convert	Multiply by	95.00	=	59.37	100		160
pounds force into newtons	4.44822	100.00	=	62.50	105	=	168
poundals into newtons	0.138255	105.00	=	65.62	110	=	176
TEMPERATURE	Children .	110.00	=	68.75	115	=	184
	ert from	115.00	=	71.87	120	=	192
Fahrenheit to Centigrade: degrees Fahrenh	Centigrade to	120.00 130.00	=	75.00 81.25	125 130	=	200 208
		140.00	=	87.50	135	=	216
$(X^{\circ} F - 32) \times \frac{5}{9} = Y C$ $(Y^{\circ} C \times -$	9 5) + 32 = X°F	150.00	=	93.75	140	=	224
1790							

## **IMPERIAL SYSTEM**

LENGTH			AVOIRDUPOIS WEI	GHT				
1000 milli-inches	=	1 inch	437.5 grains	=	1 ounce	CAPACITY		
12 inches	=	1 foot	16 drams	=	1 ounce	8 fluid drams	$\dot{t}=0$	1 fluid ounce
3 feet	=	1 yard	7000 grains	=	1 pound	5 fluid ounces	=	1 gill
5.5 yards	=	1 rod	256 drams	=	1 pound	20 fluid ounces	=	1 pint
220 yards	=	1 furlong	16 ounces	=	1 pound	4 gills	=	1 pint
40 rods	=	1 furlong	14 pounds	=	1 stone	40 fluid ounces	=	1 quart
5280 feet	=	1 mile	2 stones	=	1 quarter	2 pints	=	1 quart
1760 yards	=	1 mile	100 pounds	=	1 cental	160 fluid ounces	=	1 gallon
8 furlongs	=	1 mile	112 pounds	=	1 cwt	8 pints	=	1 gallon
3 miles	=	1 league	4 quarters	=	1 cwt	4 quarts	=	1 gallon
25 links	=	1 rod	35840 ounces	=	1 ton	2 gallons	=	1 peck
100 links	=	1 chain	2240 pounds	=	1 ton	4 pecks	=	1 bushel
66 feet	=	1 chain	20 cwts	=	1 ton	8 gallons	=	1 bushel
22 yards	= 1	1 chain				64 gallons	t=t	1 quarter
4 rods	=	1 chain	APOTHECARIES' W	APOTHECARIES' WEIGHT			=	1 barrel
			20 grains	=	1 scuple	2 barrels	=	1 hogshead
LENGTH (NAUTICAL)			3 scuples	=	1 dram			
6 feet	=	1 fathom	8 drams	=	1 ounce	MARINERS' MEASURE		
100 fathoms (approx)	=	1 cable length	12 ounces	=	1 pound	6 feet	=	1 fathom
10 cable lengths	=	1 nautical mile	Ounce and pound ar	e the sa	me as in Troy	120 fathoms	=	1 cable length
			Weight.			7 1/2 cable lengths	=	1 mile
AREA						5,280.2 feet	=	1 statute mile
144 sq ins	=	1 sq foot	TROY WEIGHT			6,080.2 feet	=	1 nautical mile
9 sq feet	=	1 sq yard	24 grains	=	1 pwt			
30.25 sq	=	1 sq rod	20 pwt	=	1 ounce	SURVEYORS' MEASUR	RE	
484 sq yds	=	1 sq chain	12 ounces	=	1 pound	7.92 inches	=	1 link
1210 sq yds	=	1 rood	Used for weighting g	old, silve	er and jewels.	25 links	=	1 rod
4840 sq yds	=	1 acre				4 rods	=	1 chain
160 sq rods	=	1 acre	VOLUME			10 sq chains	=	1 acre
640 acres	=	1 sq mile	1728 cu ins	=	1 cu foot	or 160 sq rods		
			46656 cu ins	=	1 cu yard	640 acres	=	1 square mile
			27 cu ins	=	1 cu yard	36 sq miles (6 miles sq)	=	1 township
20					12	70 E 270		35

		27 cu ins	= 1 cu yard	36 sq miles (6 miles sq)	= 1 townsnip
METRIC SYSTEM					
LENGTH		TIME		VOLUME & CAPACITY	•
1000         picometres         =           1000         nanometres         =           1000         micrometres         =           10         millimetres         =           10         centimetres         =           10         millimetres         =           10         millimetres         =	1 nanometre 1 micrometre 1 millimetre 1 centimetre 1 decimetre 1 metre 1 metre	1000 nanoseconds 1000 microseconds 1000 milliseconds 1000 seconds VELOCITY 3.6 kilometres		1000 cu millimetres = 1000 cu decimeters = 1 millilitre = 10 millilitres = 10 centilitres = 10 centilitres = 10	= 1 cu millimetre = 1 cu decimeter = 1 cu metre = 1 centimetre = 1 centilitre = 1 decilitre = 1 litre
100 millimetres = 10 decimetres = 100 metres = 1000 metres = 1000	1 metre 1 metre 1 hectometre 1 kilometre	3600 per hour kilometres per hour	second = 1 kilometre per second	100 centilitres 100 litres 1000 litres	= 1 litre = 1 hectolitre = 1 kilolitre = 1 cu metre
1852 nautical metres =	1 international nautical mile	1000 picoamperes 1000 nanoamperes	= 1 nanoampere	PRESSURE AND STRE	
AREA 100 sq millimetres = 100 sq centimetres = 10 000 sq centimetres = 100 sq decimetres = 10 000 sq metres = 100 hectares =	1.1.001010	1000 microamperes 1000 milliamperes 1000 amperes 1000 milliculombs 1000 coulombs 1000 millivolts 1000 volts	s = 1 milliampere = 1 ampere = 1 kiloampere = 1 coulomb = 1 kilocoulomb = 1 millivolt = 1 volt = 1 kilovolt	1000 millipascals = 100 pascals = 1000 pascals = 1000 millibars = 1000 kilopascals = 1000 millipascals	= 1 millipascal = 1 pascal = 1 millibar = 1 kilopascal = 1 kilopascal = 1 megapascal = 1 gigapascal
MASS		1000 volts	= 1 megavolt	<b>DENSITY &amp; CONCENT</b>	RATION
1000 micrograms = 200 milligrams = 1000 milligrams = 5 metric carats = 1000 grams = 1000 kilograms = 1000 milligrams = 1000 kilograms	1 milligram 1 metric carat 1 gram 1 gram 1 kilogram 1 megagram	1000 microhms 1000 milliohms 1000 ohms 1000 kilohms 1000 megohms 1000 millisiemens	= 1 milliohm = 1 ohm = 1 kilohm = 1 megohm = 1 gigohm = 1 siemen	1 gram per cu metre 1000 milligrams per cu decimetre	<ul> <li>1 milligram per cu decimetre</li> </ul>
= ENERGY (WORK & HEA	1 tonne	1000 millihenrys 1000 milliteslas	= 1 henry = 1 tesla	, occ mogramo	= 1 tonne per cu metre = 1 kilogram per
1000 millijoules = 1000 joules = 1000 kilojoules =	1 joule 1 kilojoule 1 megajoule	POWER 1000 micorwatts 1000 milliwatts	= 1 milliwatt = 1 watt	FORCE	cu decimetre
3.6 megajoules = 1000 megajoules = 1000 gigajoules =	1 kilowatt hour 1 gigajoule 1 terajoule	1000 watts 1000 kilowatts 1000 megawatts 1000 gigawatts	= 1 kilowatt = 1 megawatt = 1 gigawatt = 1 terawatt	1000 micronewtons = 1000 millinewtons = 1000 newtons	= 1 micronewton = 1 newton = 1 kilonewton = 1 meganewton

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