

Guide to the Metric System

	Unit	Approximate Number of Meters	U.S. Equivalent
Length	myriameter	10,000	6.214 miles
	kilometer	1,000	0.621 mile
	hectometer	100	109.361 yards
	decameter	10	32.808 feet
	meter	1	39.370 inches
	decimeter	0.1	3.937 inches
	centimeter	0.01	0.394 inch
	millimeter	0.001	0.039 inch

	Unit	Number of Square Meters	Approximate U.S. Equivalent
Area	square kilometer	1,000,000	0.386 square mile
	hectare	10,000	2.477 acres
	are	100	119.599 square yards
	deciare	10	11.960 square yards
	centare	1	10.764 square feet
	square centimeter	0.0001	0.155 square inch

	Unit	Number of Cubic Meters	Approximate U.S. Equivalent
Volume	Decastere	10	13.079 cubic yards
	stere	1	1.308 cubic yards
	decistere	0.10	3.532 cubic feet
	cubic centimeter	0.000001	0.061 cubic inch

Metric Conversion Chart - Approximations

	When You Know	Multiply By	To Find
Length	millimeters	0.04	inches
	centimeters	0.39	inches
	meters	3.28	feet
	meters	1.09	yards
	kilometers	0.62	miles
	inches	25.40	millimeters
	inches	2.54	centimeters
	feet	30.48	centimeters
	yards	0.91	meters
	miles	1.61	kilometers
Area	square centimeters	0.16	square inches
	square meters	1.20	square yards
	square kilometers	0.39	square miles
	squares (10,000m ²)	2.47	acres
	square inches	6.45	sq. centimeters
	square feet	0.09	square meters
	square yards	0.84	square meters
	square miles	2.60	sq. kilometers
	acres	0.40	hectares
Mass and Weight	grams	0.035	ounce
	kilograms	2.21	pounds
	tons	1.10	short tons
	ounces	28.35	grams
	pounds	0.45	kilograms
	short tons (2000lb)	0.91	tons
Volume	milliliters	0.20	teaspoons
	milliliters	0.06	tablespoons
	milliliters	0.03	fluid ounces
	liters	4.23	cups
	liters	2.12	pints

	When You Know	Multiply By	To Find
Volume	liters	1.06	quarts
	liters	0.26	gallons
	cubic meters	35.32	cubic feet
	cubic meters	1.35	cubic yards
	teaspoons	4.93	milliliters
	tablespoons	14.78	milliliters
	fluid ounces	29.57	milliliters
	cups	0.24	liters
	pints	0.47	liters
	quarts	0.95	liters
	gallons	3.79	liters
Volume	cubic feet	0.03	cubic meters
	cubic yards	0.76	cubic meters
Speed	miles/hour	1.61	kilometers/hour
	kilometers/hour	0.62	miles/hour
Temperature (exact)	Celsius temp.	$9/5 \cdot +32$	Fahrenheit temp.
	Fahrenheit temp.	$-32 \cdot 5/9 \times$ remainder	Celsius temp.

Temperatures in degrees Celsius, as in the familiar Fahrenheit system, can only be learned through experience. The following temperatures are ones that are frequently encountered:

0°C	Freezing point of water (32°F)
10°C	A warm winter day (50°F)
20°C	A mild spring day (68°F)
30°C	A hot summer day (86°F)
37°C	Normal body temperature (98.6°)
40°C	Heat wave conditions (104°F)
100°C	Boiling point of water (212°F)

