

Metric and U.S. Systems of Weights and Measures

LENGTH

Metric	U.S.
1 kilometer = 1,000 1 hectometer = 100 1 dekameter = 10 1 meter = 1 1 decimeter = 0.1 1 centimeter = 0.01 1 millimeter = 0.00 1 micron = 0.000001	Multiples and Fractions of one meter 1 international nautical mile = 6,076.1 feet 1 statute mile (mi) = 320 rods = 1,760 yds = 5,280 ft 1 rod (rd) = 5 1/2 yards = 16 1/2 feet 1 yard (yd) = 3 feet = 36 inches 1 foot (ft) = 12 inches (in)

LENGTH EQUIVALENTS

Metric to U.S.	U.S. to Metric
1 millimeter = 0.03937 inch 1 centimeter = 0.3937 inch 1 meter = 39.37 inches 1 meter = 3.2808 feet 1 meter = 1.09361 yards 1 meter = 0.1988 rod 1 kilometer = 0.6214 mile	1 inch = 2.540 centimeters 1 foot = 30.480 centimeters 1 foot = 0.3048 meter 1 yard = 91.440 centimeters 1 yard = 0.9144 meter 1 rod = 5.0292 meters 1 mile = 1.6093 kilometers

To convert units of one system into the other, multiply the number of units by the equivalent opposite that unit.

For example:

To convert 26.5 centimeters into inches, multiply 26.5 by 0.3937; $26.5 \times 0.3937 = 10.433$ inches.

Or – to convert 8.75 inches into centimeters, multiply 8.75 by 2.54; $8.75 \times 2.54 = 22.225$ centimeters.

AREA EQUIVALENTS

Metric to U.S.	U.S. to Metric
1 square centimeter = 0.155 square inch 1 square meter = 1550.0 square inches 1 square meter = 10.764 square feet 1 square meter = 1.196 square yards	1 square inch = 6.4516 square centimeters 1 square foot = 929.0341 square centimeters 1 square foot = 0.0929 square meter 1 square yard = 0.8361 square meter

VOLUME EQUIVALENTS

Metric to U.S.	U.S. to Metric
1 cubic centimeter = 0.06102 cubic inch 1 cubic decimeter = 61.0234 cubic inches 1 cubic meter = 35.3145 cubic feet 1 cubic meter = 1.3079 cubic yards	1 cubic inch = 16.3872 cubic centimeters 1 cubic foot = 28.317 cubic centimeters 1 cubic foot = 0.02832 cubic meter 1 cubic yard = 0.7646 cubic meter