

The Relationship Between English and Metric Length Units

Metric length	English length
kilometer (km)	0.6214 mi or 0.62137119 mi
meter (m)	39.37 in. or 39.370079 in.
centimeter (cm)	0.3937 in. or 0.39370079 in.
millimeter (mm)	3.937×10^{-2} in. or 3.9370079×10^{-2} in.
micrometer (μm)	3.937×10^{-5} in. or 3.9370079×10^{-5} in.
nanometer (nm)	3.937×10^{-8} in. or 3.9370079×10^{-8} in.

English length	Metric length
mile (mi)	1.609 km or 1.609344 km (exact)
yard (yd)	0.9144 m (exact) or 91.44 cm (exact)
foot (ft)	30.48 cm (exact) or 0.3048 m (exact)
inch (in.)	2.54 cm (exact) or 0.0254 m (exact)

The Relationship Between English and Metric Mass Units

Metric Mass	English Mass
metric ton (t)	2205 lb or 2204.6226 lb
kilogram (kg)	2.205 lb or 2.2046226 lb
gram (g)	0.002205 lb or 0.0022046226 lb
milligram (mg)	3.527×10^{-5} oz or 3.5273962×10^{-5} oz
microgram (μg)	3.527×10^{-8} oz or 3.5273962×10^{-8} oz

English Mass	Metric Mass
ton (ton)	907.2 kg or 907.18474 kg
pound (lb)	453.6 g or 453.59237 g
ounce (oz)	28.35 g or 28.349523 g
	2.835×10^4 mg or 2.8349523×10^4 mg

The Relationship Between English and Metric Volume Units

Metric volume	English volume
liter (L)	1.057 qt or 1.056718 qt
milliliter (mL)	0.03381 fl oz or 0.03381497 fl oz
microliter (μL)	3.381×10^{-5} fl oz or 3.381497×10^{-5} fl oz
cubic centimeter (cm^3)	0.03381 fl oz or 0.03381497 fl oz

English volume	Metric volume
gallon (gal)	3.785 L or 3.785306 L
quart (qt)	0.9463 L or 0.9463264 L
fluid ounce (fl oz)	29.57 mL or 29.57270 mL
cubic inch (cu in.)	16.39 mL or 16.387064 mL (exact)