

Appendix B: Systems of Measurement Charts

US Customary System:

1 foot (ft)	12 inches (in)
1 yard (yd)	3 feet
1 mile (mi)	5280 feet
1 pound (lb)	16 ounces
1 ton (T)	2000 pounds
1 cup (c)	8 fluid ounces
1 pint (pt)	2 cups
1 quart (qt)	2 pints
1 gallon (gal)	4 quarts

Time:

1 minute (min)	60 seconds (sec)
1 hour (hr)	60 minutes
1 day	24 hours
1 year (yr)	365 days

Metric System Prefixes:

Prefix	Symbol	Meaning
kilo	k	1000 × base unit
hecto	h	100 × base unit
deka	da	10 × base unit
-	-	Base unit
deci	d	1/10 of base unit
centi	c	1/100 of base unit
milli	m	1/1000 of base unit

Some Metric System Conversions:

Volume in Cubic Units	Volume in Liters
1 cm ³	1 ml
1 dm ³	1 l
1 m ³	1 kl

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Fahrenheit/Celsius

$$C = \frac{5}{9}(F - 32) \qquad F = \frac{9}{5}C + 32$$

Celsius	Meaning	Fahrenheit
0°C	Freezing point of water	32°F
100°F	Boiling point of water	212°F

US Customary to Metric

Length	
1 inch	2.54 centimeters
1 foot	30.48 centimeters
1 yard	0.9144 meters
1 mile	1.609 kilometers
Area	
1 in ²	6.4516 cm ²
1 ft ²	0.0929 m ²
1 yd ²	0.8361 m ²
1 mi ²	2.59 km ²
1 acre	0.405 hectare (ha)
Volume	
1 teaspoon (tsp)	4.929 milliliters
1 tablespoon (tbsp)	14.79 milliliters
1 fluid ounce	29.57 milliliters
1 cup	0.2366 liters
1 pint	0.4732 liters
1 quart	0.9464 liters
1 gallon	3.785 liters
1 cubic foot	0.02832 cubic meters
1 cubic yard	0.7646 cubic meters
Weight (Mass)	
1 ounce	28.35 grams
1 pound	0.4536 kilograms
1 ton (T)	0.9 tonne (t)