

# Metric and U.S. Measurement Equivalencies

Metric System Prefixes							
Prefix	kilo	hecto	deka	base unit	deci	centi	milli
Symbol	k	h	da	m g L	d	c	m

## LENGTH

1 m = 1,000 millimeters (mm)  
 1 m = 100 centimeters (cm)  
 1 m = 10 decimeters (dm)  
 1 m = 0.1 dekameters (dam)  
 1 m = 0.01 hectometers (hm)  
 1 m = 0.001 kilometers (km)

## WEIGHT

1 g = 1,000 mg  
 1 kg = 1,000 g  
 1 mg = 0.001 g  
 1 g = 0.001 kg  
 1 t = 1,000 kg

## CAPACITY

1 L = 1,000 mL  
 1 kL = 1,000 L  
 1 mL = 0.001 L  
 1 cm<sup>3</sup> = 1 mL = 1g

1 ft = 12 in  
 1 yd = 3 ft  
 1 yd = 36 in  
 1 mi = 5,280 ft = 1,760 yd

1 lb = 16 oz  
 1 ton = 2,000 lb

1 cup = 8 fl oz  
 1 pint = 2 cups  
 1 quart = 2 pints = 4 cups  
 1 gallons = 4 quarts  
 1 gallons = 128 fl oz

1 in = 2.54 cm  
 1 m = 3.28 ft  
 1 m = 1.09 yd  
 1 mi = 1.61 km  
 1 ft = 30.48 cm  
 1 yd = 0.9 m

1 oz = 28 g  
 1 lb = 454 g  
 1 kg = 2.2 lb  
 1 ton (T) = 0.9 tonne (t)

1 L = 1.06 quarts  
 1 gallon = 3.79 L  
 1 cup = 0.24 L  
 1 pint = 0.47 L  
 1 quart = 0.95 L

## AREA

1 ft<sup>2</sup> = 144 in<sup>2</sup>  
 1 yd<sup>2</sup> = 9 ft<sup>2</sup>  
 1 acre = 43,560 ft<sup>2</sup>  
 1 mi<sup>2</sup> = 640 acres  
 1 acre = 4,840 yd<sup>2</sup>  
 1 in<sup>2</sup> = 6.5 cm<sup>2</sup>

1 ft<sup>2</sup> = 0.09 m<sup>2</sup>

1 yd<sup>2</sup> = 0.8 m<sup>2</sup>

1 mi<sup>2</sup> = 2.6 km<sup>2</sup>

1 acre = 0.4 hectare

## VOLUME

1 gal = 231 in<sup>3</sup>  
 1 yd<sup>3</sup> = 202 gal  
 1 ft<sup>3</sup> = 7.48 gal  
 1 ft<sup>3</sup> = 1,728 in<sup>3</sup>  
 1 yd<sup>3</sup> = 27 ft<sup>3</sup>  
 1 ft<sup>3</sup> fresh water = 62.5 lb  
 1 ft<sup>3</sup> salt water = 64 lb

## TEMPERATURE

$$F = \frac{9}{5}C + 32$$

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

## INTEREST

$$I = Prt$$

$$A = P \left(1 + \frac{r}{n}\right)^{nt}$$

$$E = \left(1 + \frac{r}{n}\right)^n - 1$$