

METRIC PREFIXES AND CONVERSION FACTORS TO ENGLISH SYSTEM
 (THESE WILL BE MEMORIZED)

ENGLISH-ENGLISH CONVERSION FACTORS

LENGTH	MASS	VOLUME
1 ft. = 12 in.	1 lb. = 16 oz.	1 gal. = 4 qts.
1 yd. = 3 ft.	1 ton = 2000 lbs.	1 gal. = 128 fl.oz.
1 mi. = 5280 ft.		1 qt. = 2 pts.

METRIC-ENGLISH CONVERSION FACTORS

LENGTH	MASS	VOLUME
1 in. = 2.54 cm.	1 lb. = 454 g.	1 L. = 1.06 qts.
1 m. = 39.36 in.	1 Kg. = 2.2 lbs.	1 mL = 1 cc. = 1 cm ³ .
1 mi. = 1.61 km.	1 metric ton = 1000 kg.	
1 cm. = 100,000,000 Angstroms(Å)		

Metric Prefixes
 (each higher prefix is larger by a factor of 10)

Tera (T)

Giga (G)

 many

Mega (M)

kilo (k)

EACH STEP UP
 IS 10 TIMES THE
 PREVIOUS STEP

hecto (h)

deca (da)

1 dg. = 10 cg.

unit (m,g,l)

1 hg. = 1000 dg.

deci_ (d)

centi (c)

THESE CONVERSIONS MAY BE USED AS
 AS CONVERSION FACTORS IN DIMENSIONAL
 ANALYSIS CALCULATIONS.

1.2 dam = _____ mm.

$$\frac{1.2 \text{ dam}}{1} \times \frac{10000 \text{ mm}}{1 \text{ dam}} = 1.2e4 \text{ mm.}$$

micro (μ)

.55 miles = _____ cm.

$$\frac{.55 \text{ miles}}{1} \times \frac{5280 \text{ ft}}{1 \text{ mi.}} \times \frac{12 \text{ in.}}{1 \text{ ft.}} \times \frac{2.54 \text{ cm.}}{1 \text{ in.}} = 8.85e4 \text{ cm.}$$

nano (n)

 pico (p)