

## DECIMAL EQUIVALENTS OF FRACTIONS OF AN INCH

INCH	DECIMAL	INCH	DECIMAL
1/64	0.015625	33/64	0.515625
1/32	0.03125	17/32	0.53125
3/64	0.046875	35/64	0.546875
1/16	0.0625	9/16	0.5625
5/64	0.078125	37/64	0.578125
3/32	0.09375	19/32	0.59375
7/64	0.109375	39/64	0.609375
1/8	0.125	5/8	0.625
9/64	0.140625	41/64	0.640625
5/32	0.15625	21/32	0.65625
11/64	0.171875	43/64	0.671875
3/16	0.1875	11/16	0.6875
13/64	0.203125	45/64	0.703125
7/32	0.21875	23/32	0.71875
15/64	0.234375	47/64	0.734375
1/4	0.25	3/4	0.75
17/64	0.265625	49/64	0.765625
9/32	0.28125	25/32	0.78125
19/64	0.296875	51/64	0.796875
5/16	0.3125	13/16	0.8125
21/64	0.328125	53/64	0.828125
11/32	0.34375	27/32	0.84375
23/64	0.359375	55/64	0.859375
3/8	0.375	7/8	0.875
25/64	0.390625	57/64	0.890625
13/32	0.40625	29/32	0.90625
27/64	0.421875	59/64	0.921875
7/16	0.4375	15/16	0.9375
29/64	0.453125	61/64	0.953125
15/32	0.46875	31/32	0.96875
31/64	0.484375	63/64	0.984375
1/2	0.50	1	1.00000



## **WEIGHT FORMULAS**

### **LBS, PER LINEAL FOOT**

#### **ROUNDS**



Steel:  
 $2.6729 \times D^2$   
Aluminum:  
 $.924 \times D^2$   
D=Size, Inches

#### **SQUARES**



Steel:  
 $3.4032 \times D^2$   
Aluminum:  
 $1.18 \times D^2$   
D=Size, Inches

#### **HEXAGONS**



Steel:  
 $2.9473 \times D^2$   
Aluminum:  
 $1.02 \times D^2$   
D=Size, Inches

#### **OCTAGONS**



Steel:  
 $2.8193 \times D^2$   
Aluminum:  
 $.974 \times D^2$   
D=Size, Inches

#### **FLATS**



Steel:  
 $3.4032 \times T \times W$   
Aluminum:  
 $1.20 \times T \times W$   
T=Thickness, In.  
W=Width, Inches

#### **TUBING**



Steel:  
 $10.68 \times (OD-W) \times W$   
Aluminum:  
 $3.70 \times (OD-W) \times W$   
OD=OD, Inches  
W=Wall, Inches

#### **CIRCLES**



Steel:  
 $.22274 \times T \times D^2$   
Aluminum:  
 $.077 \times T \times D^2$   
D=Diameter, In.  
T=Thickness, In.

#### **RINGS**



Steel:  
 $.22274 \times T \times (OD^2 - ID^2)$   
Aluminum:  
 $.077 \times T \times (OD^2 - ID^2)$   
OD=OD, Inches  
ID=ID, Inches  
T=Thickness, In.



## METRIC SYSTEM

### LENGTH — Basic unit is meter (m)

Metric Unit	Meters	Inches	Feet	Yards	Miles
Millimeter (mm)	.001	—	—	—	—
Centimeter (cm)	.01	.3937	—	—	—
Decimeter (dm)	.1	3.937	.3281	.1094	—
Meter (m)	1	39.37	3.281	1.094	—
Decameter (dkm)	10	393.7	32.81	10.94	—
Hectometer (hm)	100	3937	328.1	109.4	—
Kilometer (km)	1000	—	3281	1094	.6214

#### To convert

In. to Millimeters - multiply by 25.4  
 Millimeters to In. - multiply by .03937  
 Feet to Meters - multiply by .3048  
 Meters to Feet - multiply by 3.281

Yards to Meters - multiply by .9144  
 Meters to Yards - multiply by 1.094  
 Miles to Kilometers - multiply by 1.609  
 Kilometers to Miles - multiply by .6214

### AREA — Basic unit is centare (ca) which is 1 square meter

Metric Unit	Centares	Square Inches	Square Feet	Square Yards	Acres
Sq. Millimeter (sq. mm)	.000001	—	—	—	—
Sq. Centimeter (sq. cm)	.0001	.1550	—	—	—
Sq. Decimeter (sq. dm)	.01	15.50	.1076	—	—
Centare/Sq. Meter (ca/sq. m)	1	1550	10.76	1.196	—
Acre (a)	100	—	1076	119.6	—
Hectare (ha)	10,000	—	—	—	2.471
Sq. Kilometer (sq. km)	1,000,000	—	—	—	247.1

#### To convert

Sq. In. to Sq. cm - multiply by 6.452  
 Sq. cm to Sq. in. - multiply by .1550  
 Sq. Ft. to Sq. m. - multiply by .0929  
 Sq. m. to Sq. Ft. - multiply by 10.76  
 Sq. Yds. to Sq. m. - multiply by .8361  
 Sq. m. to Sq. Yds. - multiply by 1.196

Acres to Hectares - multiply by .4047  
 Hectares to Acres - multiply by 2.471  
 Acres to Sq. km. - multiply by .004047  
 Sq. km. to Acres - multiply by 247.1  
 Sq. Miles to Sq. km. - multiply by 2.590  
 Sq. km. to Sq. Miles - multiply by .3861

### VOLUME — Basic unit is stere (s) which is 1 cubic meter

Metric Unit	Steres	Cubic Inch	Cubic Foot	Cubic Yards
Cu. Millimeter (cu mm)	.000000001	—	—	—
Cu. Centimeter (cu cm)	.000001	.06102	—	—
Cu. Decimeter (cu dm)	.001	61.023	—	—
Decistere (ds)	.1	6102.3	3.531	.1308
Stere/Cu. Meter (s/cu m)	1	61023	35.31	1.308
Decastere (dks)	10	—	353.1	13.08

#### To convert

Cu. In. to Cu. mm - multiply by 1639  
 Cu. mm to Cu. In. - multiply by .000061  
 Cu. In. to Cu. cm - multiply by 16.39  
 Cu. cm to Cu. In. - multiply by .06102

Cu. Ft. to Cu. m - multiply by .0283  
 Cu. m to Cu. Ft. - multiply by 35.31  
 Cu. Yds. to Cu. m - multiply by .7646  
 Cu. m to Cu. Yds. - multiply by 1.308

