



Fraction, Decimal and Metric Equivalent Conversions

<u>Fractional</u> <u>Inch</u>	<u>Decimal</u> <u>Equivalent</u>	<u>Millimeters</u>	<u>Fractional</u> <u>Inch</u>	<u>Decimal</u> <u>Equivalent</u>	<u>Millimeters</u>
1/64	0.0156	0.397	33/64	0.5156	13.097
1/32	0.0313	0.794	17/32	0.5313	13.494
3/64	0.0469	1.191	35/64	0.5469	13.891
1/16	0.0625	1.588	9/16	0.5625	14.288
5/64	0.0781	1.984	37/64	0.5781	14.684
3/32	0.0938	2.381	19/32	0.5938	15.081
7/64	0.1094	2.778	39/64	0.6094	15.478
1/8	0.1250	3.175	5/8	0.6250	15.875
9/64	0.1406	3.572	41/64	0.6406	16.272
5/32	0.1563	3.969	21/32	0.6563	16.669
11/64	0.1719	4.366	43/64	0.6719	17.066
3/16	0.1875	4.763	11/16	0.6875	17.463
13/64	0.2031	5.159	45/64	0.7031	17.859
7/32	0.2188	5.556	23/32	0.7188	18.256
15/64	0.2344	5.953	47/64	0.7344	18.653
1/4	0.2500	6.350	3/4	0.7500	19.050
17/64	0.2656	6.747	49/64	0.7656	19.447
9/32	0.2813	7.144	25/32	0.7813	19.844
19/64	0.2969	7.541	51/64	0.7969	20.241
5/16	0.3125	7.938	13/16	0.8125	20.638
21/64	0.3281	8.334	53/64	0.8281	21.034
11/32	0.3438	8.731	27/32	0.8438	21.431
23/64	0.3594	9.128	55/64	0.8594	21.828
3/8	0.3750	9.525	7/8	0.8750	22.225
25/64	0.3906	9.922	57/64	0.8906	22.622
13/32	0.4063	10.319	29/32	0.9063	23.019
27/64	0.4219	10.716	59/64	0.9219	23.416
7/16	0.4375	11.112	15/16	0.9375	23.813
29/64	0.4531	11.509	61/64	0.9531	24.209
15/32	0.4688	11.906	31/32	0.9688	24.606
31/64	0.4844	12.303	63/64	0.9844	25.003
1/2	0.5000	12.700	1	1.0000	25.400



Mathematical Formulas

To find the radius of a circle:

- Multiply circumference by 0.15915 | Or divide circumference by 6.28318

To find the circumference of a circle:

- Multiply diameter by 3.1416
- Or divide diameter by 0.3183

Square:

- A side multiplied by 1.4142 equals diameter of its circumscribing circle
- A side multiplied by 3.547 equals circumference of an equal circle
- A side multiplied by 4.443 equals circumference of its circumscribing circles
- Square inches multiplied by 1.273 equals circle inches of an equal circle

To find side of an equal square:

- Multiply diameter by 0.8861
- Or divide diameter by 1.1284
- Or multiply circumference by 0.2821
- Or divide circumference by 3.545

To find the surface of a sphere or globe:

- Multiply the diameter by the circumference
- Or multiply the square of diameter by 3.1416
- Or multiply four times the square of radius by 3.1416
- Ascertain the number of cubic inches in a piece and multiply same by weight per cubic inch

To find diameter:

- Multiply circumference by 0.3183
- Or divide circumference by 3.1416

To find side of an inscribed square:

- Multiply diameter by 0.7071
- Or multiply circumference by 0.2251
- Or divide circumference by 4.4428

To find the area of a circle:

- Multiply circumference by one quarter of the diameter
- Or multiply the square of diameter by 0.7854
- Or multiply the circumference by 0.07958
- Or multiply the square of 1/2 diameter by 3.1416