Fraction to Decimal Chart

Every fraction of an inch from 1/64 to 1, in lowest terms, with its exact decimal and its size in millimeters (1 inch = 25.4 mm exactly).

BooknBoost

INCHES	DECIMAL	MM	INCHES	DECIMAL	MM
1/64	0.015625	0.397	33/64	0.515625	13.097
1/32	0.03125	0.794	17/32	0.53125	13.494
3/64	0.046875	1.191	35/64	0.546875	13.891
1/16	0.0625	1.588	**9/16**	0.5625	14.288
5/64	0.078125	1.984	37/64	0.578125	14.684
3/32	0.09375	2.381	19/32	0.59375	15.081
7/64	0.109375	2.778	39/64	0.609375	15.478
1/8	0.125	3.175	**5/8**	0.625	15.875
9/64	0.140625	3.572	41/64	0.640625	16.272
5/32	0.15625	3.969	21/32	0.65625	16.669
11/64	0.171875	4.366	43/64	0.671875	17.066
3/16	0.1875	4.763	**11/16**	0.6875	17.463
13/64	0.203125	5.159	45/64	0.703125	17.859
7/32	0.21875	5.556	23/32	0.71875	18.256
15/64	0.234375	5.953	47/64	0.734375	18.653
1/4	0.25	6.350	**3/4**	0.75	19.050
17/64	0.265625	6.747	49/64	0.765625	19.447
9/32	0.28125	7.144	25/32	0.78125	19.844
19/64	0.296875	7.541	51/64	0.796875	20.241
5/16	0.3125	7.938	**13/16**	0.8125	20.638
21/64	0.328125	8.334	53/64	0.828125	21.034
11/32	0.34375	8.731	27/32	0.84375	21.431
23/64	0.359375	9.128	55/64	0.859375	21.828
3/8	0.375	9.525	**7/8**	0.875	22.225
25/64	0.390625	9.922	57/64	0.890625	22.622
13/32	0.40625	10.319	29/32	0.90625	23.019
27/64	0.421875	10.716	59/64	0.921875	23.416
7/16	0.4375	11.113	**15/16**	0.9375	23.813
29/64	0.453125	11.509	61/64	0.953125	24.209
15/32	0.46875	11.906	31/32	0.96875	24.606
31/64	0.484375	12.303	63/64	0.984375	25.003
1/2	0.5	12.700	**1**	1.0	25.400

FRACTION	DECIMAL	ROUNDED
THIRDS		
1/3	$0.\overline{3}$	≈ 0.333
2/3	$0.\overline{6}$	≈ 0.667
FIFTHS		
1/5	0.2	exact
2/5	0.4	exact
3/5	0.6	exact
4/5	0.8	exact
SIXTHS AND TWELFTHS		
1/12	$0.08\overline{3}$	≈ 0.083
1/6	$0.1\overline{6}$	≈ 0.167
5/12	$0.41\overline{6}$	≈ 0.417
7/12	$0.58\overline{3}$	≈ 0.583
5/6	$0.8\overline{3}$	≈ 0.833
11/12	$0.91\overline{6}$	≈ 0.917

HOW TO USE IT

Fraction to decimal: divide the top by the bottom. 3/8 = 3 ÷ 8 = 0.375.

Decimal to fraction: find the decimal in the chart, or the row closest to it.

A bar means the digits under it repeat forever: 1/3 = 0.333…

READ IT LIKE A RULER

The tick on each row is the mark you'd see on a tape measure. The longer the tick, the bigger the piece: halves, quarters, eighths, then 16ths, 32nds and 64ths.

Decimals are exact. Millimeters are rounded to the nearest 0.001 mm.