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Fraction to Decimal Chart

Inch fractions to decimals and millimetres in 1/64 steps, plus inches to decimal feet for construction and surveying

For: Machinists, woodworkers, builders, surveyors, students and teachers

allunitconversions.com/fraction-to-decimal-chart
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KEY RELATIONSHIP	FORMULA	REVERSE	WORKED EXAMPLE
1/64 in = 0.015625 in = 0.396875 mm exactly	Decimal = numerator ÷ denominator; mm = inches × 25.4	Fraction (to 1/64) = round(decimal × 64) ÷ 64	5/16 in = 5 ÷ 16 = 0.3125 in = 7.9375 mm

Every fraction of 1/64 has an exact decimal, shown in full; mm to 4 decimals. Decimal feet to 4 places.

Fractions of an inch to decimal inches and millimetres

Fraction	Decimal (in)	mm	Fraction	Decimal (in)	mm	Fraction	Decimal (in)	mm	Fraction	Decimal (in)	mm
1/64	0.015625	0.3969	17/64	0.265625	6.7469	33/64	0.515625	13.0969	49/64	0.765625	19.4469
1/32	0.031250	0.7938	9/32	0.281250	7.1438	17/32	0.531250	13.4937	25/32	0.781250	19.8438
3/64	0.046875	1.1906	19/64	0.296875	7.5406	35/64	0.546875	13.8906	51/64	0.796875	20.2406
1/16	0.062500	1.5875	5/16	0.312500	7.9375	9/16	0.562500	14.2875	13/16	0.812500	20.6375
5/64	0.078125	1.9844	21/64	0.328125	8.3344	37/64	0.578125	14.6844	53/64	0.828125	21.0344
3/32	0.093750	2.3812	11/32	0.343750	8.7313	19/32	0.593750	15.0812	27/32	0.843750	21.4313
7/64	0.109375	2.7781	23/64	0.359375	9.1281	39/64	0.609375	15.4781	55/64	0.859375	21.8281
1/8	0.125000	3.1750	3/8	0.375000	9.5250	5/8	0.625000	15.8750	7/8	0.875000	22.2250
9/64	0.140625	3.5719	25/64	0.390625	9.9219	41/64	0.640625	16.2719	57/64	0.890625	22.6219
5/32	0.156250	3.9688	13/32	0.406250	10.3188	21/32	0.656250	16.6688	29/32	0.906250	23.0187
11/64	0.171875	4.3656	27/64	0.421875	10.7156	43/64	0.671875	17.0656	59/64	0.921875	23.4156
3/16	0.187500	4.7625	7/16	0.437500	11.1125	11/16	0.687500	17.4625	15/16	0.937500	23.8125
13/64	0.203125	5.1594	29/64	0.453125	11.5094	45/64	0.703125	17.8594	61/64	0.953125	24.2094
7/32	0.218750	5.5562	15/32	0.468750	11.9063	23/32	0.718750	18.2562	31/32	0.968750	24.6063
15/64	0.234375	5.9531	31/64	0.484375	12.3031	47/64	0.734375	18.6531	63/64	0.984375	25.0031
1/4	0.250000	6.3500	1/2	0.500000	12.7000	3/4	0.750000	19.0500	1	1.000000	25.4000

Inches to decimal feet

Row: whole inches; column: extra fraction. 7 5/8 in = 0.6354 ft.

Inches	+0	+1/8	+1/4	+3/8	+1/2	+5/8	+3/4	+7/8
0	0.0000	0.0104	0.0208	0.0313	0.0417	0.0521	0.0625	0.0729
1	0.0833	0.0938	0.1042	0.1146	0.1250	0.1354	0.1458	0.1563
2	0.1667	0.1771	0.1875	0.1979	0.2083	0.2188	0.2292	0.2396
3	0.2500	0.2604	0.2708	0.2813	0.2917	0.3021	0.3125	0.3229
4	0.3333	0.3438	0.3542	0.3646	0.3750	0.3854	0.3958	0.4063
5	0.4167	0.4271	0.4375	0.4479	0.4583	0.4688	0.4792	0.4896
6	0.5000	0.5104	0.5208	0.5313	0.5417	0.5521	0.5625	0.5729
7	0.5833	0.5938	0.6042	0.6146	0.6250	0.6354	0.6458	0.6563
8	0.6667	0.6771	0.6875	0.6979	0.7083	0.7188	0.7292	0.7396
9	0.7500	0.7604	0.7708	0.7813	0.7917	0.8021	0.8125	0.8229
10	0.8333	0.8438	0.8542	0.8646	0.8750	0.8854	0.8958	0.9063
11	0.9167	0.9271	0.9375	0.9479	0.9583	0.9688	0.9792	0.9896

Decimal feet to inches (nearest 1/16)

Row: tenths of a foot; column: hundredths. 0.47 ft = 5 5/8 in.

Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0″	1/8″	1/4″	3/8″	1/2″	5/8″	3/4″	13/16″	15/16″	1 1/16″
0.1	1 3/16″	1 5/16″	1 7/16″	1 9/16″	1 11/16″	1 13/16″	1 15/16″	2 1/16″	2 3/16″	2 1/4″
0.2	2 3/8″	2 1/2″	2 5/8″	2 3/4″	2 7/8″	3″	3 1/8″	3 1/4″	3 3/8″	3 1/2″
0.3	3 5/8″	3 3/4″	3 13/16″	3 15/16″	4 1/16″	4 3/16″	4 5/16″	4 7/16″	4 9/16″	4 11/16″
0.4	4 13/16″	4 15/16″	5 1/16″	5 3/16″	5 1/4″	5 3/8″	5 1/2″	5 5/8″	5 3/4″	5 7/8″
0.5	6″	6 1/8″	6 1/4″	6 3/8″	6 1/2″	6 5/8″	6 3/4″	6 13/16″	6 15/16″	7 1/16″
0.6	7 3/16″	7 5/16″	7 7/16″	7 9/16″	7 11/16″	7 13/16″	7 15/16″	8 1/16″	8 3/16″	8 1/4″
0.7	8 3/8″	8 1/2″	8 5/8″	8 3/4″	8 7/8″	9″	9 1/8″	9 1/4″	9 3/8″	9 1/2″
0.8	9 5/8″	9 3/4″	9 13/16″	9 15/16″	10 1/16″	10 3/16″	10 5/16″	10 7/16″	10 9/16″	10 11/16″
0.9	10 13/16″	10 15/16″	11 1/16″	11 3/16″	11 1/4″	11 3/8″	11 1/2″	11 5/8″	11 3/4″	11 7/8″

Common fractions with other denominators

Fraction	Decimal	Percent
1/2	0.5	50%
1/3	0.333333	33.3333%
2/3	0.666667	66.6667%
1/4	0.25	25%
3/4	0.75	75%
1/5	0.2	20%
2/5	0.4	40%
3/5	0.6	60%
4/5	0.8	80%
1/6	0.166667	16.6667%
5/6	0.833333	83.3333%

Fraction	Decimal	Percent
1/7	0.142857	14.2857%
1/8	0.125	12.5%
1/9	0.111111	11.1111%
1/10	0.1	10%
1/12	0.083333	8.3333%
1/16	0.0625	6.25%
1/20	0.05	5%
1/25	0.04	4%
1/32	0.03125	3.125%
1/50	0.02	2%
1/100	0.01	1%

Sources and method

- **International Yard and Pound Agreement (1959)** — 1 in = 25.4 mm exactly

Every value is calculated exactly from the fraction; no values are typed in. Interactive version, corrections and more charts: **allunitconversions.com/fraction-to-decimal-chart**