



Linear Conversion Fraction SI Prefixes

Compilation of technical data.
 PAI does not assume any responsibility.

1 inch = 25.40 millimeters

Fractions, Decimals and Millimeters

Fraction	Decimal of Inch	Millimeter	Fraction	Decimal of Inch	Millimeter
1/64	0.015 625	0.40	33/64	0.515 625	13.10
1/32	0.031 25	0.79	17/32	0.531 25	13.49
3/64	0.046 875	1.19	35/64	0.546 875	13.89
1/16	0.062 5	1.59	9/16	0.562 5	14.29
5/64	0.078 125	1.98	37/64	0.578 125	14.68
3/32	0.093 75	2.38	19/32	0.593 75	15.08
7/64	0.109 375	2.78	39/64	0.609 375	15.48
1/8	0.125	3.18	5/8	0.625	15.88
9/64	0.140 625	3.57	41/64	0.640 625	16.27
5/32	0.156 25	3.97	21/32	0.656 25	16.67
11/64	0.171 875	4.37	43/64	0.671 875	17.07
3/16	0.187 5	4.76	11/16	0.687 5	17.46
13/64	0.203 125	5.16	45/64	0.703 125	17.86
7/32	0.218 75	5.56	23/32	0.718 75	18.26
15/64	0.234 375	5.95	47/64	0.734 375	18.65
1/4	0.25	6.35	3/4	0.75	19.05
17/64	0.265 625	6.75	49/64	0.765 625	19.45
9/32	0.281 25	7.14	25/32	0.781 25	19.84
19/64	0.296 875	7.54	51/64	0.796 875	20.24
5/16	0.312 5	7.94	13/16	0.812 5	20.64
21/64	0.328 125	8.33	53/64	0.828 125	21.03
11/32	0.343 75	8.73	27/32	0.843 75	21.43
23/64	0.359 375	9.13	55/64	0.859 375	21.83
3/8	0.375	9.53	7/8	0.875	22.23
25/64	0.390 625	9.92	57/64	0.890 625	22.62
13/32	0.406 25	10.32	29/32	0.906 25	23.02
27/64	0.421 875	10.72	59/64	0.921 875	23.42
7/16	0.437 5	11.11	15/16	0.937 5	23.81
29/64	0.453 125	11.51	61/64	0.953 125	24.21
15/32	0.468 75	11.91	31/32	0.968 75	24.61
31/64	0.484 375	12.30	63/64	0.984 375	25.00
1/2	0.5	12.70	1	1.0	25.40

SI Prefixes

Prefix	Multiplication Factor	Symbol	Prefix	Multiplication Factor	Symbol
exa	1 000 000 000 000 000 000 = 10 ¹⁸	E	deci(b)	0.1 = 10 ⁻¹	d
peta	1 000 000 000 000 000 = 10 ¹⁵	P	centi(c)	0.01 = 10 ⁻²	c
			milli	0.001 = 10 ⁻³	m
tera	1 000 000 000 000 = 10 ¹²	T	micro	0.000 001 = 10 ⁻⁶	μ
giga	1 000 000 000 = 10 ⁹	G	nano	0.000 000 001 = 10 ⁻⁹	n
mega	1 000 000 = 10 ⁶	M	pico	0.000 000 000 001 = 10 ⁻¹²	p
kilo	1 000 = 10 ³	k	femto	0.000 000 000 000 001 = 10 ⁻¹⁵	f
hecto(b)	100 = 10 ²	h	atto	0.000 000 000 000 000 001 = 10 ⁻¹⁸	a
deka(b)	10 = 10 ¹	da			

(a) Used to form multiples and decimal fractions of the base and derived SI units. (b) Normally avoided. (c) Use not recommended.