

Conversion Charts

Inches to Metric

Into Metric			Out of Metric		
Begin With	Multiply by	To Get	Begin With	Multiply by	To Get
Length			Length		
inches	2.54	centimeters	millimeters	0.04	inches
foot	30	centimeters	centimeters	0.4	inches
yards	0.91	meters	meters	3.3	feet
miles	1.6	kilometers	kilometers	0.62	miles
Area			Area		
sq. inches	6.5	sq. centimeters	sq. centimeters	0.16	sq. inches
sq. feet	0.09	sq. meters	sq. meters	1.2	sq. yards
sq. yards	0.8	sq. meters	sq. kilometers	0.4	sq. miles
sq. miles	2.6	sq. kilometers	hectares	2.47	acres
acres	0.4	hectares			

Decimal Equivalents of 8ths, 16ths, 32nds, 64ths

8ths	32nds	64ths	64ths
1/8 = .125	1/32 = .03125	1/64 = .015625	33/64 = .515625
1/4 = .250	3/32 = .09375	3/64 = .046875	35/64 = .546875
3/8 = .375	5/32 = .15625	5/64 = .078125	37/64 = .578125
1/2 = .500	7/32 = .21875	7/64 = .109375	39/64 = .609375
5/8 = .625	9/32 = .28125	9/64 = .140625	41/64 = .640625
3/4 = .750	11/32 = .34375	11/64 = .171875	43/64 = .671875
7/8 = .875	13/32 = .40625	13/64 = .203125	45/64 = .703125
16ths	15/32 = .46875	15/64 = .234375	47/64 = .734375
1/16 = .0625	17/32 = .53125	17/64 = .265625	49/64 = .765625
3/16 = .1875	19/32 = .59375	19/64 = .296875	51/64 = .796875
5/16 = .3125	21/32 = .65625	21/64 = .328125	53/64 = .828125
7/16 = .4385	23/32 = .71875	23/64 = .359373	55/64 = .859375
9/16 = .5625	25/32 = .78125	25/64 = .390625	57/64 = .890625
11/16 = .6875	27/32 = .84375	27/64 = .421875	59/64 = .921875
13/16 = .8125	29/32 = .90625	29/64 = .453125	61/64 = .953125
15/16 = .9375	31/32 = .96875	31/64 = .484375	63/64 = .984375

Decimal Equivalents of Letter Size Drills

Letter	Size of Drill in Inches	Letter	Size of Drill in Inches
A	.234	N	.302
B	.238	O	.316
C	.242	P	.323
D	.246	Q	.332
E	.250	R	.339
F	.257	S	.348
G	.261	T	.358
H	.266	U	.368
I	.272	V	.377
J	.277	W	.386

K	.281	X	.397
L	.290	Y	.404
M	.295	Z	.413

Decimal Equivalents of Number Size Drills

Number	Size of Drill in Inches	Number	Size of Drill in Inches	Number	Size of Drill in Inches	Number	Size of Drill in Inches
1	.2280	21	.1590	41	.0960	61	.0390
2	.2210	22	.1570	42	.0935	62	.0380
3	.2130	23	.1540	43	.0890	63	.0370
4	.2090	24	.1520	44	.0860	64	.0360
5	.2055	25	.1495	45	.0820	65	.0350
6	.2040	26	.1470	46	.0810	66	.0330
7	.0210	27	.1440	47	.0785	67	.0320
8	.1990	28	.1405	48	.0760	68	.0310
9	.1960	29	.1360	49	.0730	69	.0292
10	.1935	30	.1285	50	.0700	70	.0280
11	.1910	31	.1200	51	.0670	71	.0260
12	.1890	32	.1160	52	.0635	72	.0250
13	.1850	33	.1130	53	.0595	73	.0240
14	.1820	34	.1110	54	.0550	74	.0225
15	.1800	35	.1100	55	.0520	75	.0210
16	.1770	36	.1065	56	.0465	76	.0200
17	.1730	37	.1040	57	.0430	77	.0180
18	.1695	38	.1015	58	.0420	78	.0160
19	.1660	39	.0995	59	.0410	79	.0145
20	.1610	40	.0980	60	.0400	80	.0135

American Standard Pipe Thread and Tap Drill Sizes

Pipe Size Inches	Threads Per Inch	Root Diameter Small End of Pipe and Gage	Tap Drill Taper NPT	Tap Drill Straight NPS
1/8	27	.3339"	Q	11/32"
1/4	18	.4329"	7/16"	7/16"
3/8	18	.5676"	9/16"	37/64"
1/2	14	.7013"	45/64"	23/32"
3/4	14	.9105"	29/32"	59/64"
1	11-1/2	1.1441"	1-9/64"	1-5/32"
1-1/4	11-1/2	1.4876"	1-31/64"	1-1/2"
1-1/2	11-1/2	1.7265"	1-47/64"	1-3/4"
2	11-1/2	2.1995"	2-13/64"	2-7/32"

Tap and Drill Sizes

Tap Size	Thread / Inch	Diam. Hole	Drill	Tap Size	Thread / Inch	Diam. Hole	Drill	Tap Size	Thread / Inch	Diam. Hole	Drill
1/16	72	.049	3/64	1/4	28	.215	3	7/8	14	.805	13/16
1/16	64	.047	3/64	1/4	27	.214	3	7/8	12	.794	51/64
1/16	60	.046	56	1/4	24	.209	4	7/8	9	.767	49/64
5/64	72	.065	52	1/4	20	.201	7	15/16	12	.856	55/64
5/64	64	.063	1/16	5/16	32	.282	9/32	15/16	9	.829	53/64
5/64	60	.062	1/16	5/16	27	.276	J	1	27	.964	31/32
5/64	56	.061	53	5/16	24	.272	I	1	14	.930	15/16

3/32	60	.077	5/64	5/16	20	.264	17/64	1	12	.919	59/64
3/32	56	.076	48	5/16	18	.258	F	1	8	.878	7/8
3/32	50	.074	49	3/8	27	.339	R	1 1/16	8	.941	15/16
3/32	48	.073	49	3/8	24	.334	Q	1 1/8	12	1.044	13/64
7/64	56	.092	42	3/8	20	.326	21/64	1 1/8	7	.986	1 63/64
7/64	50	.090	43	3/8	16	.314	5/16	1 3/16	7	1.048	13/64
7/64	48	.089	43	7/16	27	.401	Y	1 1/4	12	1.169	1 11/64
1/8	48	.105	36	7/16	24	.397	X	1 1/4	7	1.111	17/64
1/8	40	.101	38	7/16	20	.389	25/64	1 5/16	7	1.173	1 11/64
1/8	36	.098	40	7/16	14	.368	U	1 3/8	12	1.294	1 19/64
1/8	32	.095	3/32	1/2	27	.464	15/32	1 3/8	6	1.213	1 7/32
9/64	40	.116	32	1/2	24	.460	29/64	1 1/2	12	1.419	1 27/64
9/64	36	.114	33	1/2	20	.451	29/64	1 1/2	6	1.338	1 11/32
9/64	32	.110	35	1/2	13	.425	27/64	1 5/8	5 1/2	1.448	1 29/64
5/32	40	.132	30	1/2	12	.419	27/64	1 3/4	5	1.555	1 9/16
5/32	36	.129	30	9/16	27	.525	17/32	1 7/8	5	1.680	1 11/16
5/32	32	.126	1/8	9/16	18	.508	33/64	2	4 1/2	1.783	1 25/32
11/64	36	.145	27	9/16	12	.481	31/64	2 1/8	4 1/2	1.909	1 29/32
11/64	32	.141	9/64	5/8	27	.589	19/32	2 1/4	4 1/2	2.034	2 1/32
3/16	36	.161	20	5/8	18	.571	37/64	2 3/8	4	2.131	2 1/8
3/16	32	.157	22	5/8	12	.544	35/64	2 1/2	4	2.256	2 1/4
3/16	30	.155	23	5/8	11	.536	17/32	2 5/8	4	2.381	2 3/8
3/16	24	.147	26	11/16	16	.627	5/8	2 3/4	4	2.506	2 1/2
13/16	32	.173	17	11/16	11	.599	19/32	2 7/8	3 1/2	2.597	2 19/32
13/64	30	.171	11/64	3/4	27	.714	23/32	3	3 1/2	2.722	2 23/32
13/64	24	.163	20	3/4	16	.689	11/16	3 1/8	3 1/2	2.847	2 27/32
7/32	32	.188	12	3/4	12	.669	43/64	3 1/4	3 1/2	2.972	2 31/32
7/32	28	.184	13	3/4	10	.653	21/32	3 3/8	3 1/4	3.075	3 1/16
7/32	24	.178	16	13/16	12	.731	47/64	3 1/2	3 1/4	3.200	3 3/16
15/64	32	.204	6	13/16	10	.715	23/32	3 5/8	3 1/4	3.325	3 5/16
15/64	28	.200	8	7/8	27	.839	27/32	3 3/4	3	3.425	3 7/16
15/64	24	.194	10	7/8	18	.821	53/64	4	3	3.675	3 11/16
1/4	32	.220	7/32								