

Calculations for figuring the Stock Length of Rings

(Inside Diameter + Stock Size) * 3.14

Inside Diameter	Radius	Stock Size							
		1/8	1/4	3/8	1/2	5/8	3/4	7/8	1
1/2	1/4	1.96	2.35	2.75	3.14	3.53	3.93	4.32	4.71
3/4	3/8	2.75	3.14	3.53	3.93	4.32	4.71	5.10	5.50
1	1/2	3.53	3.93	4.32	4.71	5.10	5.50	5.89	6.28
1 1/2	3/4	5.10	5.50	5.89	6.28	6.67	7.07	7.46	7.85
2	1	6.67	7.07	7.46	7.85	8.24	8.64	9.03	9.42
2 1/2	1 1/4	8.24	8.64	9.03	9.42	9.81	10.21	10.60	10.99
3	1 1/2	9.81	10.21	10.60	10.99	11.38	11.78	12.17	12.56
3 1/2	1 3/4	11.38	11.78	12.17	12.56	12.95	13.35	13.74	14.13
4	2	12.95	13.35	13.74	14.13	14.52	14.92	15.31	15.70
4 1/2	2 1/4	14.52	14.92	15.31	15.70	16.09	16.49	16.88	17.27
5	2 1/2	16.09	16.49	16.88	17.27	17.66	18.06	18.45	18.84
5 1/2	2 3/4	17.66	18.06	18.45	18.84	19.23	19.63	20.02	20.41
6	3	19.23	19.63	20.02	20.41	20.80	21.20	21.59	21.98
6 1/2	3 1/4	20.80	21.20	21.59	21.98	22.37	22.77	23.16	23.55
7	3 1/2	22.37	22.77	23.16	23.55	23.94	24.34	24.73	25.12
7 1/2	3 3/4	23.94	24.34	24.73	25.12	25.51	25.91	26.30	26.69
8	4	25.51	25.91	26.30	26.69	27.08	27.48	27.87	28.26
8 1/2	4 1/4	27.08	27.48	27.87	28.26	28.65	29.05	29.44	29.83
9	4 1/2	28.65	29.05	29.44	29.83	30.22	30.62	31.01	31.40
9 1/2	4 3/4	30.22	30.62	31.01	31.40	31.79	32.19	32.58	32.97
10	5	31.79	32.19	32.58	32.97	33.36	33.76	34.15	34.54
10 1/2	5 1/4	33.36	33.76	34.15	34.54	34.93	35.33	35.72	36.11
11	5 1/2	34.93	35.33	35.72	36.11	36.50	36.90	37.29	37.68
11 1/2	5 3/4	36.50	36.90	37.29	37.68	38.07	38.47	38.86	39.25
12	6	38.07	38.47	38.86	39.25	39.64	40.04	40.43	40.82
12 1/2	6 1/4	39.64	40.04	40.43	40.82	41.21	41.61	42.00	42.39
13	6 1/2	41.21	41.61	42.00	42.39	42.78	43.18	43.57	43.96
13 1/2	6 3/4	42.78	43.18	43.57	43.96	44.35	44.75	45.14	45.53
14	7	44.35	44.75	45.14	45.53	45.92	46.32	46.71	47.10
14 1/2	7 1/4	45.92	46.32	46.71	47.10	47.49	47.89	48.28	48.67
15	7 1/2	47.49	47.89	48.28	48.67	49.06	49.46	49.85	50.24
15 1/2	7 3/4	49.06	49.46	49.85	50.24	50.63	51.03	51.42	51.81
16	8	50.63	51.03	51.42	51.81	52.20	52.60	52.99	53.38
16 1/2	8 1/4	52.20	52.60	52.99	53.38	53.77	54.17	54.56	54.95
17	8 1/2	53.77	54.17	54.56	54.95	55.34	55.74	56.13	56.52
17 1/2	8 3/4	55.34	55.74	56.13	56.52	56.91	57.31	57.70	58.09
18	9	56.91	57.31	57.70	58.09	58.48	58.88	59.27	59.66
18 1/2	9 1/4	58.48	58.88	59.27	59.66	60.05	60.45	60.84	61.23
19	9 1/2	60.05	60.45	60.84	61.23	61.62	62.02	62.41	62.80
19 1/2	9 3/4	61.62	62.02	62.41	62.80	63.19	63.59	63.98	64.37
20	10	63.19	63.59	63.98	64.37	64.76	65.16	65.55	65.94
20 1/2	10 1/4	64.76	65.16	65.55	65.94	66.33	66.73	67.12	67.51
21	10 1/2	66.33	66.73	67.12	67.51	67.90	68.30	68.69	69.08
21 1/2	10 3/4	67.90	68.30	68.69	69.08	69.47	69.87	70.26	70.65
22	11	69.47	69.87	70.26	70.65	71.04	71.44	71.83	72.22
22 1/2	11 1/4	71.04	71.44	71.83	72.22	72.61	73.01	73.40	73.79
23	11 1/2	72.61	73.01	73.40	73.79	74.18	74.58	74.97	75.36
23 1/2	11 3/4	74.18	74.58	74.97	75.36	75.75	76.15	76.54	76.93
24	12	75.75	76.15	76.54	76.93	77.32	77.72	78.11	78.50
24 1/2	12 1/4	77.32	77.72	78.11	78.50	78.89	79.29	79.68	80.07
25	12 1/2	78.89	79.29	79.68	80.07	80.46	80.86	81.25	81.64
25 1/2	12 3/4	80.46	80.86	81.25	81.64	82.03	82.43	82.82	83.21
26	13	82.03	82.43	82.82	83.21	83.60	84.00	84.39	84.78
26 1/2	13 1/4	83.60	84.00	84.39	84.78	85.17	85.57	85.96	86.35
27	13 1/2	85.17	85.57	85.96	86.35	86.74	87.14	87.53	87.92
27 1/2	13 3/4	86.74	87.14	87.53	87.92	88.31	88.71	89.10	89.49
28	14	88.31	88.71	89.10	89.49	89.88	90.28	90.67	91.06
28 1/2	14 1/4	89.88	90.28	90.67	91.06	91.45	91.85	92.24	92.63
29	14 1/2	91.45	91.85	92.24	92.63	93.02	93.42	93.81	94.20
29 1/2	14 3/4	93.02	93.42	93.81	94.20	94.59	94.99	95.38	95.77
30	15	94.59	94.99	95.38	95.77	96.16	96.56	96.95	97.34
30 1/2	15 1/4	96.16	96.56	96.95	97.34	97.73	98.13	98.52	98.91
31	15 1/2	97.73	98.13	98.52	98.91	99.30	99.70	100.09	100.48

Editor's Note:

I made this chart to keep in my shop so I wouldn't have to do the math when making rings.

If your ring doesn't hit one of the dimensions listed you can make some simple adjustments.

For an additional:
1/4" diam. add 3/4"
1/8" diam. add 3/8"
to the stock.

I couldn't figure out how to convert to simple fractions 1/2, 1/4, 1/8, 1/16. I'm sure a macro would be required. But decimal mode is pretty easy to work with.

Bob Ehrenberger