

# Spiral Broken Star Quilt Strip Calculations

Jan Krentz multi-day workshop

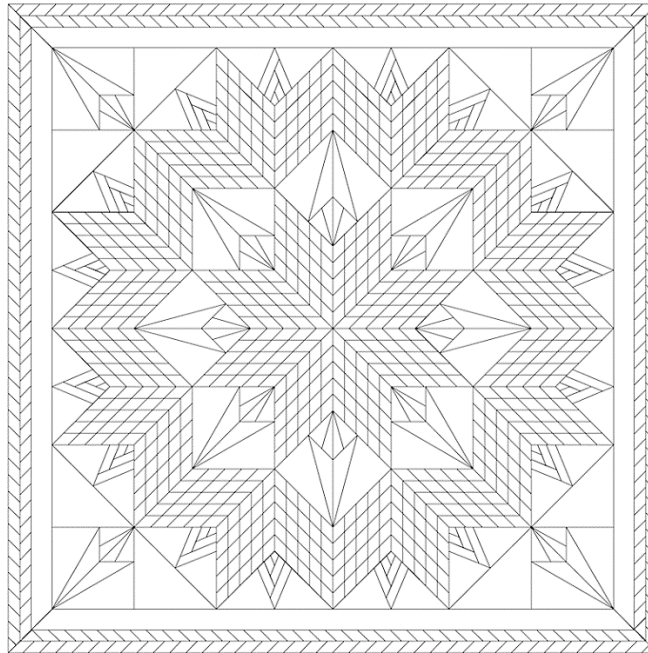
## SPIRAL BROKEN STAR QUILT STRIP CALCULATIONS & Decimal Conversions

32 diamonds, 20 setting squares, 8 setting triangles, borders of choice

4 A + 4 B = star dimensions



TIP! Add borders to increase the quilt size and finish the design.



CUT STRIP WIDTH	# DIAMOND ROWS	# PIECED INTERSECTIONS TO MATCH PER DIAMOND UNIT	TOTAL # interseptions in diamonds	A UNIT dimensions	B UNIT dimensions	OVERALL DIMENSIONS
1 ¾"	4 x 4	9	288	5"	7.07"	4A = 20 4B = 28.28 48.28"
	5 x 5	16	512	6 ¼"	8.8375"	4A = 25 4B = 35.35 60.35"
	6 x 6	25	800	7 ½"	10.605"	4A = 30 4B = 42.42 72.42"
2"	4 x 4	9	288	6"	8.484"	4A = 24 4B = 33.936 57.936"
	5 x 5	16	512	7 ½"	10.605"	4A = 30 4B = 42.42 72.42"
	6 x 6	25	800	9"	12.726"	4A = 36 4B = 50.904 86.904"

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CUT STRIP WIDTH	# DIAMOND ROWS	# PIECED INTERSECTIONS TO MATCH PER DIAMOND UNIT	TOTAL # intersections in diamonds	A UNIT dimensions	B UNIT dimensions	OVERALL DIMENSIONS
2 ¼"	4 x 4	9	288	7"	9.898"	4A = 28" 4B = 39.592" 67.592"
	5 x 5	16	512	8 ¾"	12.3725"	4A = 35" 4B = 49.49" 84.49"
	6 x 6	25	800	10 ½"	14.847"	4A = 42" 4B = 59.388" 101.388"
2 ½ "	4 x 4	9	288	8"	11.312"	4A = 32" 4B = 45.248" 77.248"
	5 x 5	16	512	10"	14.14"	4A = 40" 4B = 56.56" 96.56"
	6 x 6	25	800	12"	16.968"	4A = 48" 4B = 67.872" 115.872"
2 ¾"  (2 ¼" finished width)	3 x 3	4	128	6 ¾ "	9.545"	4A = 16.295" 4B = 38.18" 54.475"
	4 x 4	9	288	9"	12.726"	4A = 36" 4B = 50.904" 86.904 "
	5 x 5	16	512	11 ¼ "	15.91"	4A = 45" 4B = 63.63" 108.63"
3"  (2 ½" finished width)	3 x 3	4	128	7 ½"	10.605"	4A = 30" 4B = 42.42" 72.42"
	4 x 4	9	288	10"	14.14"	4A = 40" 4B = 56.56" 96.56"
	5 x 5	16	512	12 ½"	17.675"	4A = 50" 4B = 70.7" 120.7"

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## Convert fractions to decimals and millimeters and reverse.

**(1 INCH = 25.4 MM EXACTLY)** Read from left to right - pick your fraction, decimal, or mm measurement. Example = convert **1/64"** to **mm**. Find **1/64** and read to the right under **mm**.

You will see **0.3969** under the mm column. Another example = convert **0.125 decimal** to **inches**. Look down the decimal column until you find **0.125**, then follow that line to the left to find **1/8** inches or look in the right column for mm.

fraction	decimal	mm	fraction	decimal	mm	fraction	decimal	mm
<b>1/64</b>	<b>0.0156</b>	<b>0.3969</b>	<b>1 1/64</b>	<b>1.0156</b>	<b>25.7969</b>	<b>2 1/64</b>	<b>2.0156</b>	<b>51.1969</b>
1/32	0.0313	0.7938	1 1/32	1.0313	26.1938	2 1/32	2.0313	51.5938
3/64	0.0469	1.1906	1 3/64	1.0469	26.5906	2 3/64	2.0469	51.9906
1/16	0.0625	1.5875	1 1/16	1.0625	26.9875	2 1/16	2.0625	52.3875
5/64	0.0781	1.9844	1 5/64	1.0781	27.3844	2 5/64	2.0781	52.7844
3/32	0.0938	2.3813	1 3/32	1.0938	27.7813	2 3/32	2.0938	53.1813
7/64	0.1094	2.7781	1 7/64	1.1094	28.1781	2 7/64	2.1094	53.5781
<b>1/8</b>	<b>0.1250</b>	<b>3.1750</b>	<b>1 1/8</b>	<b>1.1250</b>	<b>28.5750</b>	<b>2 1/8</b>	<b>2.1250</b>	<b>53.9750</b>
9/64	0.1406	3.5719	1 9/64	1.1406	28.9719	2 9/64	2.1406	54.3719
5/32	0.1563	3.9688	1 5/32	1.1563	29.3688	2 5/32	2.1563	54.7688
11/64	0.1719	4.3656	1 11/64	1.1719	29.7656	2 11/64	2.1719	55.1656
3/16	0.1875	4.7625	1 3/16	1.1875	30.1625	2 3/16	2.1875	55.5625
13/64	0.2031	5.1594	1 13/64	1.2031	30.5594	2 13/64	2.2031	55.9594
7/32	0.2188	5.5563	1 7/32	1.2188	30.9563	2 7/32	2.2188	56.3563
15/64	0.2344	5.9531	1 15/64	1.2344	31.3531	2 15/64	2.2344	56.7531
<b>1/4</b>	<b>0.2500</b>	<b>6.3500</b>	<b>1 1/4</b>	<b>1.2500</b>	<b>31.7500</b>	<b>2 1/4</b>	<b>2.2500</b>	<b>57.1500</b>
17/64	0.2656	6.7469	1 17/64	1.2656	32.1469	2 17/64	2.2656	57.5469
9/32	0.2813	7.1438	1 9/32	1.2813	32.5438	2 9/32	2.2813	57.9438
19/64	0.2969	7.5406	1 19/64	1.2969	32.9406	2 19/64	2.2969	58.3406
5/16	0.3125	7.9375	1 5/16	1.3125	33.3375	2 5/16	2.3125	58.7375
21/64	0.3281	8.3344	1 21/64	1.3281	33.7344	2 21/64	2.3281	59.1344
11/32	0.3438	8.7313	1 11/32	1.3438	34.1313	2 11/32	2.3438	59.5313
23/64	0.3594	9.1281	1 23/64	1.3594	34.5281	2 23/64	2.3594	59.9281
<b>3/8</b>	<b>0.3750</b>	<b>9.5250</b>	<b>1 3/8</b>	<b>1.3750</b>	<b>34.9250</b>	<b>2 3/8</b>	<b>2.3750</b>	<b>60.3250</b>
25/64	0.3906	9.9219	1 25/64	1.3906	35.3219	2 25/64	2.3906	60.7219
13/32	0.4063	10.3188	1 13/32	1.4063	35.7188	2 13/32	2.4063	61.1188
27/64	0.4219	10.7156	1 27/64	1.4219	36.1156	2 27/64	2.4219	61.5156
7/16	0.4375	11.1125	1 7/16	1.4375	36.5125	2 7/16	2.4375	61.9125
29/64	0.4531	11.5094	1 29/64	1.4531	36.9094	2 29/64	2.4531	62.3094
fraction	decimal	mm	fraction	decimal	mm	fraction	decimal	mm

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15/32	0.4688	11.9063	1 15/32	1.4688	37.3063	2 15/32	2.4688	62.7063
31/64	0.4844	12.3031	1 31/64	1.4844	37.7031	2 31/64	2.4844	63.1031
<b>1/2</b>	<b>0.5000</b>	<b>12.7000</b>	<b>1 1/2</b>	<b>1.5000</b>	<b>38.1000</b>	<b>2 1/2</b>	<b>2.5000</b>	<b>63.5000</b>
33/64	0.5156	13.0969	1 33/64	1.5156	38.4969	2 33/64	2.5156	63.8969
17/32	0.5313	13.4938	1 17/32	1.5313	38.8938	2 17/32	2.5313	64.2938
35/64	0.5469	13.8906	1 35/64	1.5469	39.2906	2 35/64	2.5469	64.6906
9/16	0.5625	14.2875	1 9/16	1.5625	39.6875	2 9/16	2.5625	65.0875
37/64	0.5781	14.6844	1 37/64	1.5781	40.0844	2 37/64	2.5781	65.4844
19/32	0.5938	15.0813	1 19/32	1.5938	40.4813	2 19/32	2.5938	65.8813
39/64	0.6094	15.4781	1 39/64	1.6094	40.8781	2 39/64	2.6094	66.2781
<b>5/8</b>	<b>0.6250</b>	<b>15.8750</b>	<b>1 5/8</b>	<b>1.6250</b>	<b>41.2750</b>	<b>2 5/8</b>	<b>2.6250</b>	<b>66.6750</b>
41/64	0.6406	16.2719	1 41/64	1.6406	41.6719	2 41/64	2.6406	67.0719
21/32	0.6563	16.6688	1 21/32	1.6563	42.0688	2 21/32	2.6563	67.4688
43/64	0.6719	17.0656	1 43/64	1.6719	42.4656	2 43/64	2.6719	67.8656
11/16	0.6875	17.4625	1 11/16	1.6875	42.8625	2 11/16	2.6875	68.2625
45/64	0.7031	17.8594	1 45/64	1.7031	43.2594	2 45/64	2.7031	68.6594
23/32	0.7188	18.2563	1 23/32	1.7188	43.6563	2 23/32	2.7188	69.0563
47/64	0.7344	18.6531	1 47/64	1.7344	44.0531	2 47/64	2.7344	69.4531
<b>3/4</b>	<b>0.7500</b>	<b>19.0500</b>	<b>1 3/4</b>	<b>1.7500</b>	<b>44.4500</b>	<b>2 3/4</b>	<b>2.7500</b>	<b>69.8500</b>
49/64	0.7656	19.4469	1 49/64	1.7656	44.8469	2 49/64	2.7656	70.2469
25/32	0.7813	19.8438	1 25/32	1.7813	45.2438	2 25/32	2.7813	70.6438
51/64	0.7969	20.2406	1 51/64	1.7969	45.6406	2 51/64	2.7969	71.0406
13/16	0.8125	20.6375	1 13/16	1.8125	46.0375	2 13/16	2.8125	71.4375
53/64	0.8281	21.0344	1 53/64	1.8281	46.4344	2 53/64	2.8281	71.8344
27/32	0.8438	21.4313	1 27/32	1.8438	46.8313	2 27/32	2.8438	72.2313
55/64	0.8594	21.8281	1 55/64	1.8594	47.2281	2 55/64	2.8594	72.6281
<b>7/8</b>	<b>0.8750</b>	<b>22.2250</b>	<b>1 7/8</b>	<b>1.8750</b>	<b>47.6250</b>	<b>2 7/8</b>	<b>2.8750</b>	<b>73.0250</b>
57/64	0.8906	22.6219	1 57/64	1.8906	48.0219	2 57/64	2.8906	73.4219
29/32	0.9063	23.0188	1 29/32	1.9063	48.4188	2 29/32	2.9063	73.8188
59/64	0.9219	23.4156	1 59/64	1.9219	48.8156	2 59/64	2.9219	74.2156
15/16	0.9375	23.8125	1 15/16	1.9375	49.2125	2 15/16	2.9375	74.6125
61/64	0.9531	24.2094	1 61/64	1.9531	49.6094	2 61/64	2.9531	75.0094
31/32	0.9688	24.6063	1 31/32	1.9688	50.0063	2 31/32	2.9688	75.4063
63/64	0.9844	25.0031	1 63/64	1.9844	50.4031	2 63/64	2.9844	75.8031
<b>1"</b>	<b>1.0000</b>	<b>25.4000</b>	<b>2"</b>	<b>2.0000</b>	<b>50.8000</b>	<b>3"</b>	<b>3.0000</b>	<b>76.2000</b>

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