

Lone Star Calculation Steps

Quilt Name: Summer Salsa or Spiral Lone Star			
	Total number of diamond units	16	16
1	strip width – cut size (inches)	2"	2.25" (2 1/4")
2	finished size	1.5"	1.75" (1 3/4")
3	number of strips per stripset	4	4
4	Multiply # 2 x #3 FINISHED DIAMOND UNIT HEIGHT / WIDTH (A)	$\begin{array}{r} 1.5'' \\ \times 4 \\ \hline 6'' \end{array}$	$\begin{array}{r} 1.75'' \\ \times 4 \\ \hline 7'' \end{array}$
5	Multiply diamond width x 1.414	X 1.414	X 1.414
6	TOTAL FINISHED LENGTH OF SIDE OR "X" MEASUREMENT (B)	8.484" (roughly 8-1/2")	9.898" (roughly 9-7/8")
7	WIDTH of STRIP SET (from #4 or A)	6"	7"
8	Add seam allow. to strip set finished size (#4 or A)	+ .5	+ .5
9	UNFINISHED WIDTH of STRIP SET (likely the size you'll draw your blocking cloth)	6.5"	7.5"
10	FINISHED DIAMOND UNIT HEIGHT / WIDTH (#4 or A)	6"	7"
11	multiply x 4	X 4	X 4
12	Total height / width – 4 diamond unit s	24 inches	28 inches
13	TOTAL FINISHED LENGTH OF SIDE (#6 or B)	8.484"	9.898"
14	Multiply x 2	X 2	X 2
15	Total length – 2 units, side measurement	16.968"	19.796"
16	ADD #12 + #15	24" + 16.968"	28" + 19.796"
17	TOTAL WIDTH OF STAR QUILT TOP WITHOUT BORDERS	40.968" (roughly 41")	47.796" (roughly 47-7/8")
18	Optional – FINISHED Border width (one border, without seam allowances)		
19	Multiply x 2 (one border on each side)	X 2	X 2
20	TOTAL WIDTH OF BORDERS		
21	Add the quilt top width (#17) plus border width (# 20)	$\begin{array}{r} \text{_____} \\ + \text{_____} \\ \hline \end{array}$	$\begin{array}{r} \text{_____} \\ + \text{_____} \\ \hline \end{array}$
22	Total width of FINISHED quilt top WITH BORDERS		

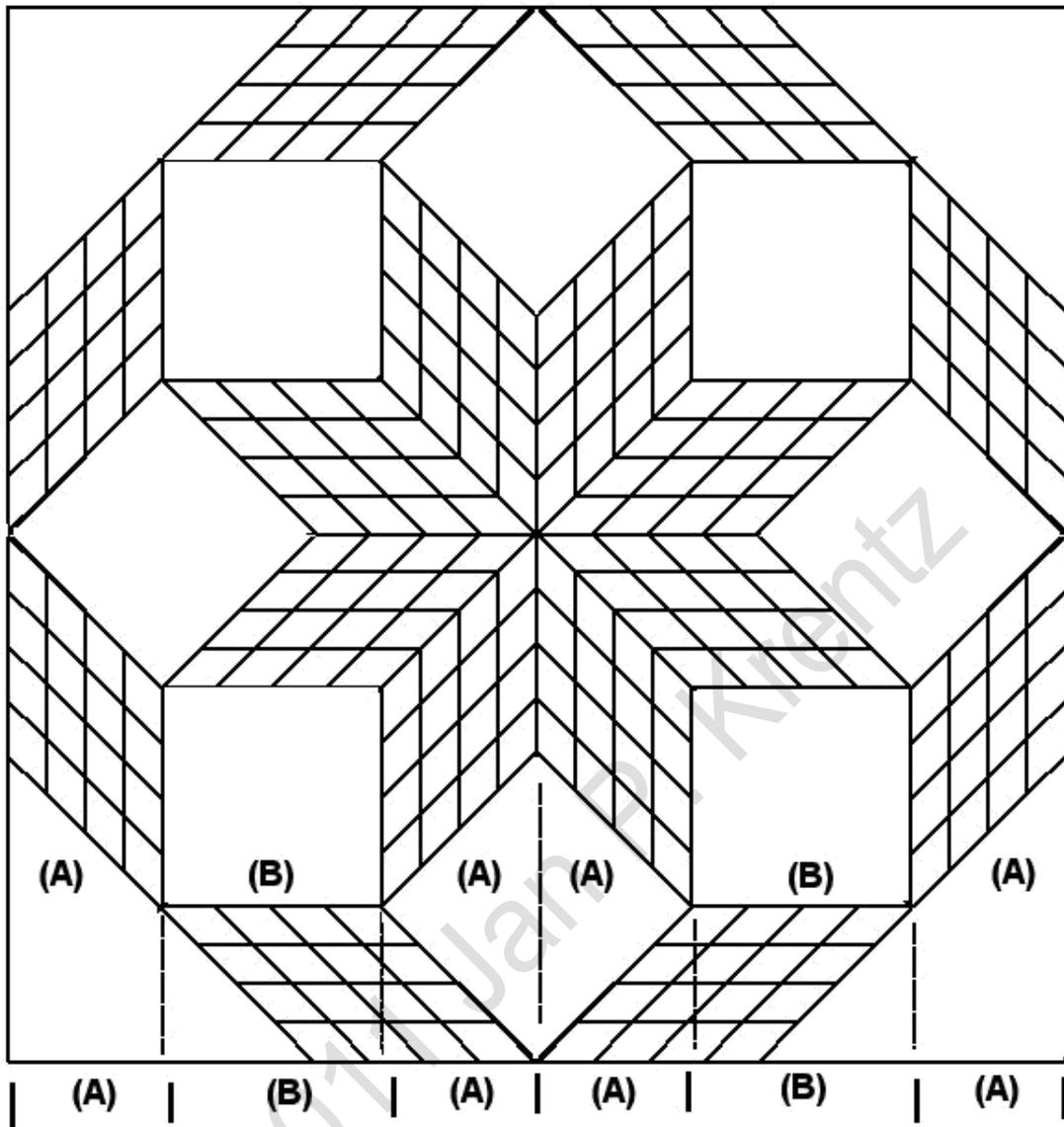
Lone Star Calculation Steps

Quilt Name: Summer Salsa or Spiral Lone Star			
	Total number of diamond units	16	16
1	strip width – cut size (inches)	2.5" (2 1/2")	3"
2	finished size	2"	2.5"
3	number of strips per stripset	4	4
4	Multiply # 2 x #3 FINISHED DIAMOND UNIT HEIGHT / WIDTH (A)	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 2.5 \\ \times 4 \\ \hline 10 \end{array}$
5	Multiply diamond width x 1.414	X 1.414	X 1.414
6	TOTAL FINISHED LENGTH OF SIDE OR "X" MEASUREMENT (B)	11.312" (roughly 11 5/16" to 11 3/8")	14.14" (roughly 14 1/8"+ or 14 3/16")
7	WIDTH of STRIP SET (from #4 or A)	8"	10"
8	Add seam allow. to strip set finished size (#4 or A)	+ .5	+ .5
9	UNFINISHED WIDTH of STRIP SET (likely the size you'll draw your blocking cloth)	8.5"	14.64" (roughly 14 5/8")
10	FINISHED DIAMOND UNIT HEIGHT / WIDTH (#4 or A)	8"	10"
11	multiply x 4	X 4	X 4
12	Total height / width – 4 diamond unit s	32 inches	40 inches
13	TOTAL FINISHED LENGTH OF SIDE (#6 or B)	11.312	14.14"
14	Multiply x 2	X 2	X 2
15	Total length – 2 units, side measurement	22.624"	28.28"
16	ADD #12 + #15	32" + 22.624"	40" + 28.28"
17	TOTAL WIDTH OF STAR QUILT TOP WITHOUT BORDERS	54.624" (roughly 54 5/8")	68.28" (roughly 68 1/4")
18	Optional – FINISHED Border width (one border, without seam allowances)	3"	
19	Multiply x 2 (one border on each side)	X 2	X 2
20	TOTAL WIDTH OF BORDERS	6"	
21	Add the quilt top width (#17) plus border width (# 20)	$\begin{array}{r} 54.624 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
22	Total width of FINISHED quilt top WITH BORDERS	60.624" (roughly 60 5/8")	

Lone Star Calculation Steps

Quilt Name:			
	Total number of diamond units		
1	strip width – cut size (inches)		
2	finished size		
3	number of strips per stripset		
4	Multiply # 2 x #3 FINISHED DIAMOND UNIT HEIGHT / WIDTH (A)		
5	Multiply diamond width x 1.414	X 1.414	X 1.414
6	TOTAL FINISHED LENGTH OF SIDE OR “X” MEASUREMENT (B)		
7	WIDTH of STRIP SET (from #4 or A)		
8	Add seam allow. to strip set finished size (#4 or A)	+ .5	+ .5
9	UNFINISHED WIDTH of STRIP SET (likely the size you'll draw your blocking cloth)		
10	FINISHED DIAMOND UNIT HEIGHT / WIDTH (#4 or A)		
11	multiply x number of A units across body of quilt	X	X
12	Total height / width – all A diamond unit s		
13	TOTAL FINISHED LENGTH OF SIDE (#6 or B)		
14	Multiply x number of B units across body of quilt		
15	Total length – all B units		
16	ADD #12 + #15		
17	TOTAL WIDTH OF STAR QUILT TOP WITHOUT BORDERS		
18	Optional – FINISHED Border width (one border, without seam allowances)		
19	Multiply x 2 (one border on each side)	X 2	X 2
20	TOTAL WIDTH OF BORDERS		
21	Add the quilt top width (#17) plus border width (# 20)	$\begin{array}{r} \text{-----} \\ + \\ \text{-----} \\ \hline \end{array}$	$\begin{array}{r} \text{-----} \\ + \\ \text{-----} \\ \hline \end{array}$
22	Total width of FINISHED quilt top WITH BORDERS		

Lone Star Calculation Steps



Cut strip width = 2.5" / Finished strip width = 2"
2.5" - .5" seam allowance = 2" finished width each strip
4 rows x 2" = 8" (A) (width of one diamond unit)

8" (width of one diamond unit)
X 1.414 (calculation for length of angled side)

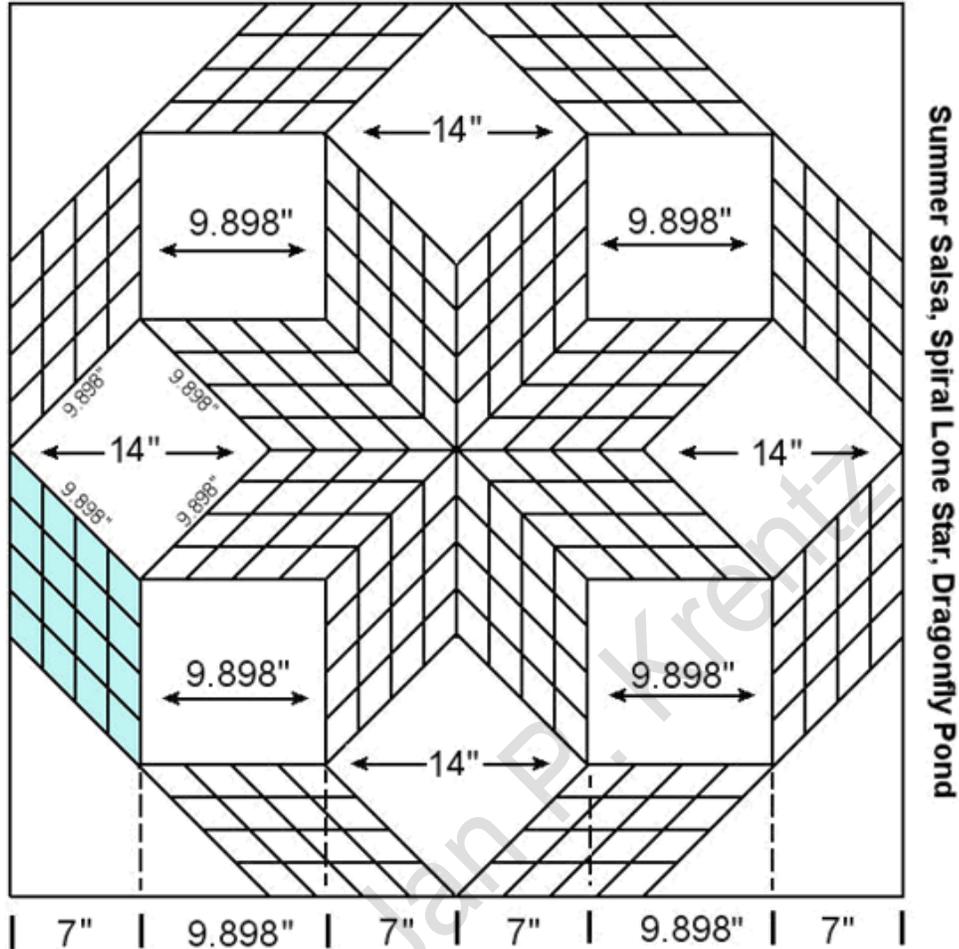
11.312 (or slightly larger than 11 1/4") - (B)

4 x (A) 8" = 32"
2 x (B) 11.312" = 22.624"

32" + 22.624" = 54.624" width of quilt without borders

Lone Star Calculation Steps

4x4 Lone Star / Rolling Star design layout with 2-1/4" strips



1 diamond unit = 4 x 4 rows of single diamonds

2.25" **Cut strip width (2 1/4")**

– .5" **seam allowance**

1.75" finished strip width / finished row of single diamonds

1.75" **finished strip width**
x 4 **rows of single diamonds**

7" (finished width of 1 diamond unit)

7.0" (finished width of 1 diamond unit)

X 1.414 **(calculation for length of angled side)**

9.898" (finished square – approx. 9 7/8")

4 x 7" = 28" **(diamond units across width of quilt, above)**

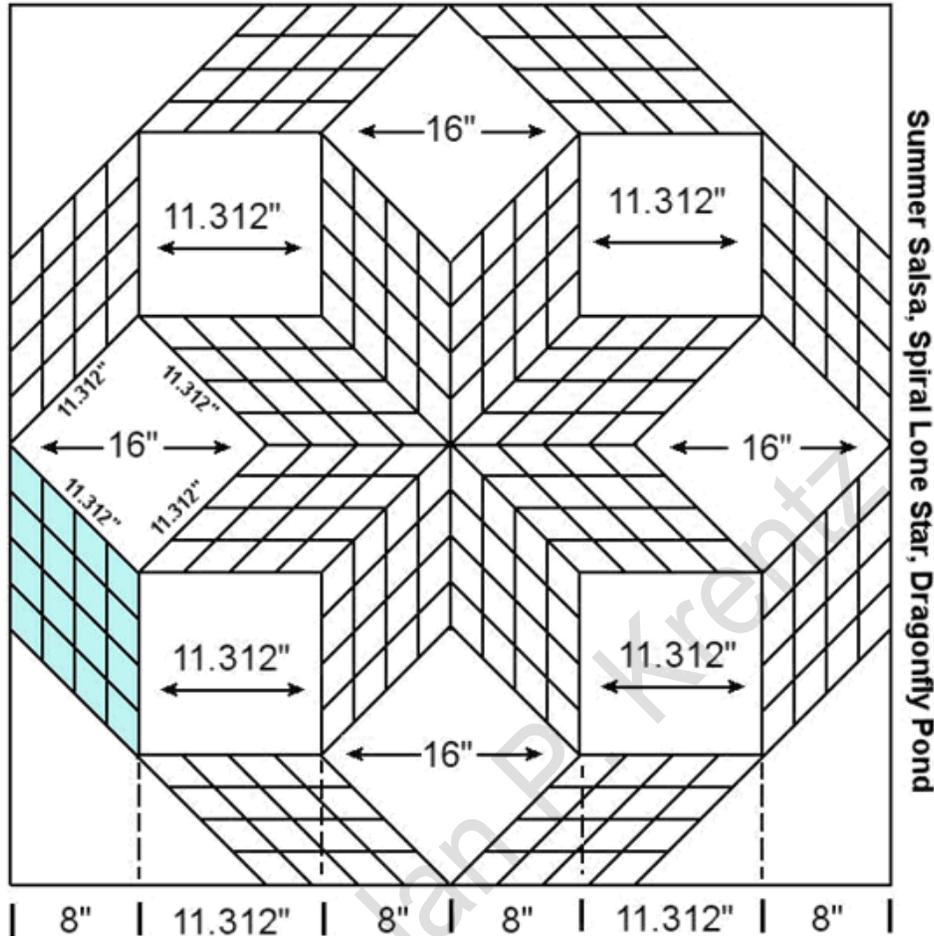
2 x 9.898" = 19.796" **(squares across width of quilt)**

28" + 19.796" = **47.796" width of quilt top without borders**

47.796" = approx. **47 3/4" width of quilt top without borders**

Lone Star Calculation Steps

4x4 Lone Star / Rolling Star design layout with 2-1/2" strips



1 diamond unit = 4 x 4 rows of single diamonds

2.5" Cut strip width

-.5" seam allowance

2" finished strip width / finished row of single diamonds

2" finished strip width

x 4 rows of single diamonds

8" (finished width of **1 diamond unit**)

8.0" (finished width of **1 diamond unit**)

X 1.414 (calculation for length of angled side)

11.312" (finished square)

4 x 8" = 32" (diamond units across width of quilt, above)

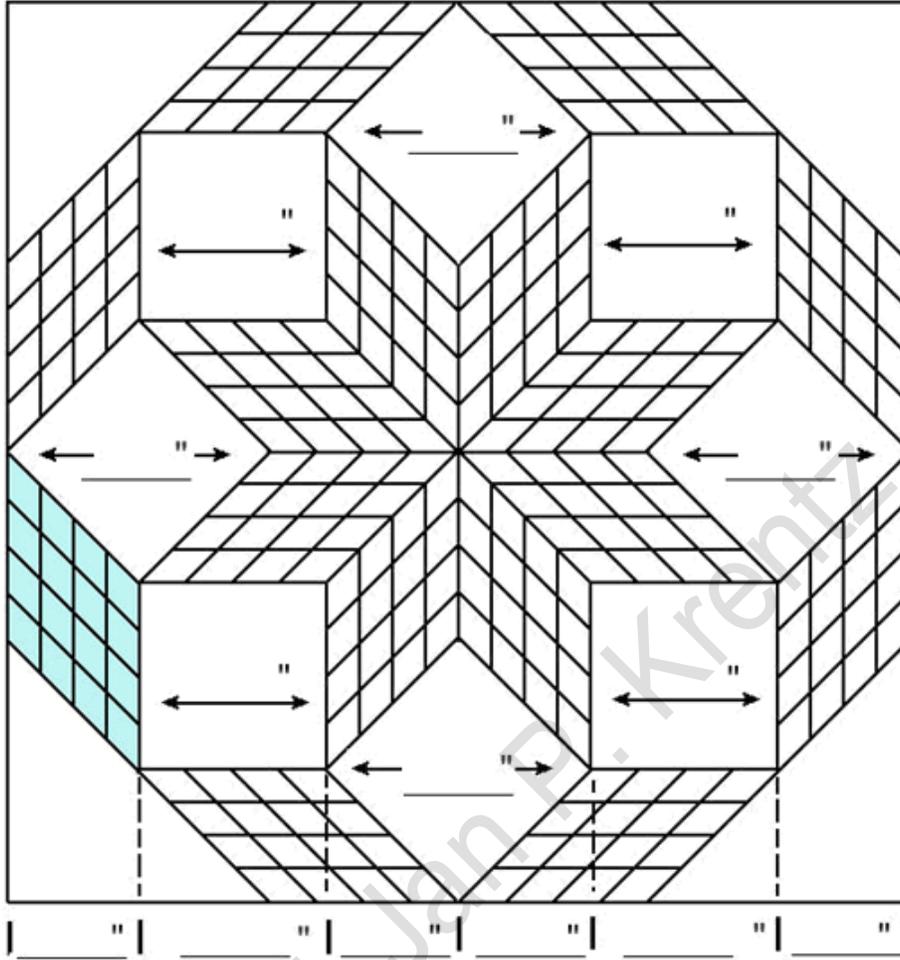
2 x 11.312" = 22.624" (squares across width of quilt)

32" + 22.624" = 54.624" width of quilt top without borders

54.624" = approximately 54 5/8" width of quilt top without borders

Lone Star Calculation Steps

4x4 Lone Star / Rolling Star design layout with _____" strips



Summer Salsa, Spiral Lone Star, Dragonfly Pond

1 diamond unit = 4 x 4 rows of single diamonds

_____ " Cut strip width (_____ ")

-.5" seam allowance

_____ " finished strip width / finished row of single diamonds

_____ " finished strip width
x 4 rows of single diamonds

_____ " (finished width of **1 diamond unit**)

_____ " (finished width of **1 diamond unit**)
X 1.414 (calculation for length of angled side)

_____ " (finished square - approx. _____ ")

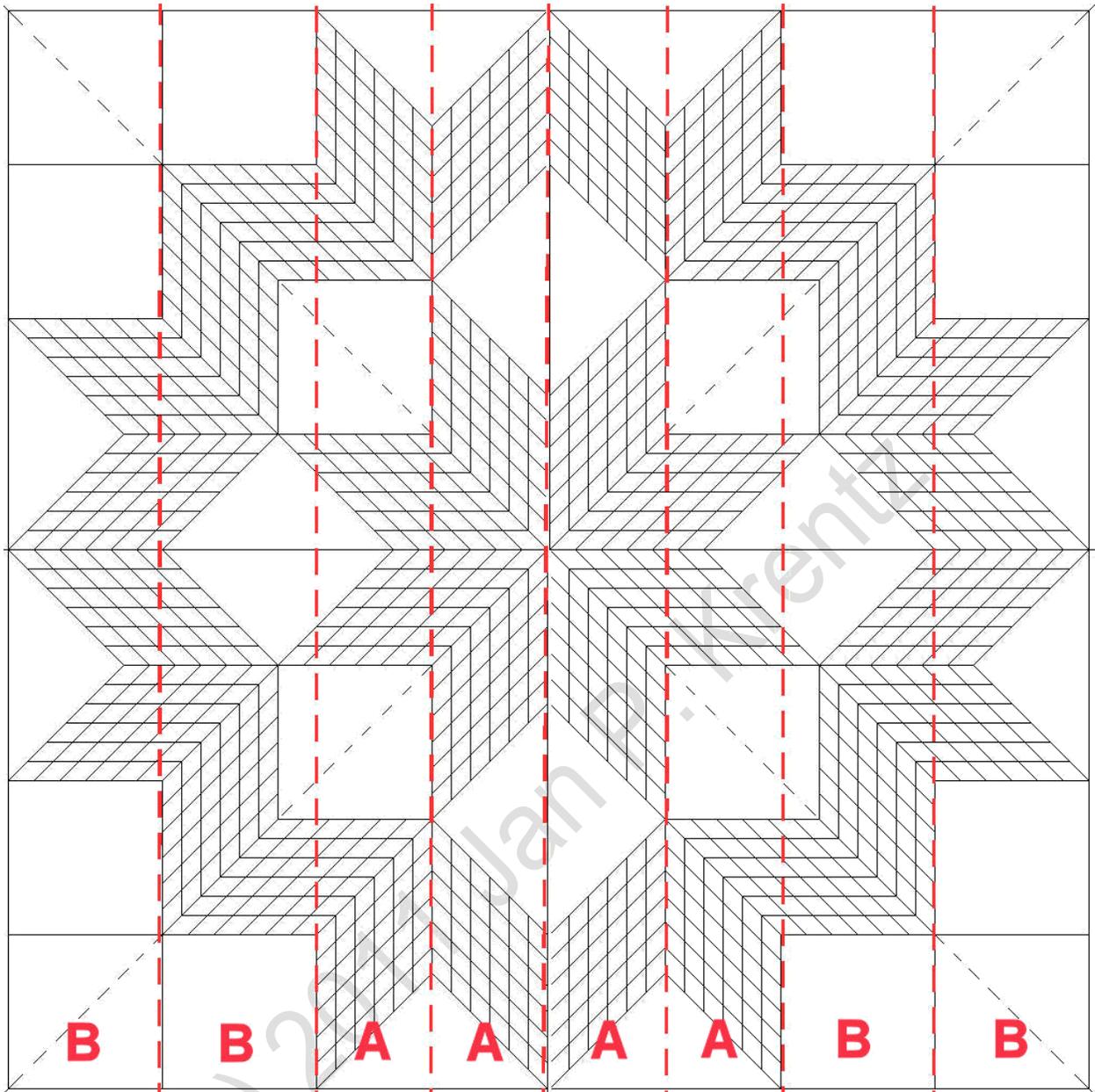
4 x _____ " = _____ (diamond units across width of quilt, above)

2 x _____ " = _____ " (squares across width of quilt)

_____ " + _____ " = _____ " width of quilt top without borders

_____ " = approx. _____ " width of quilt top without borders

Lone Star Calculation Steps

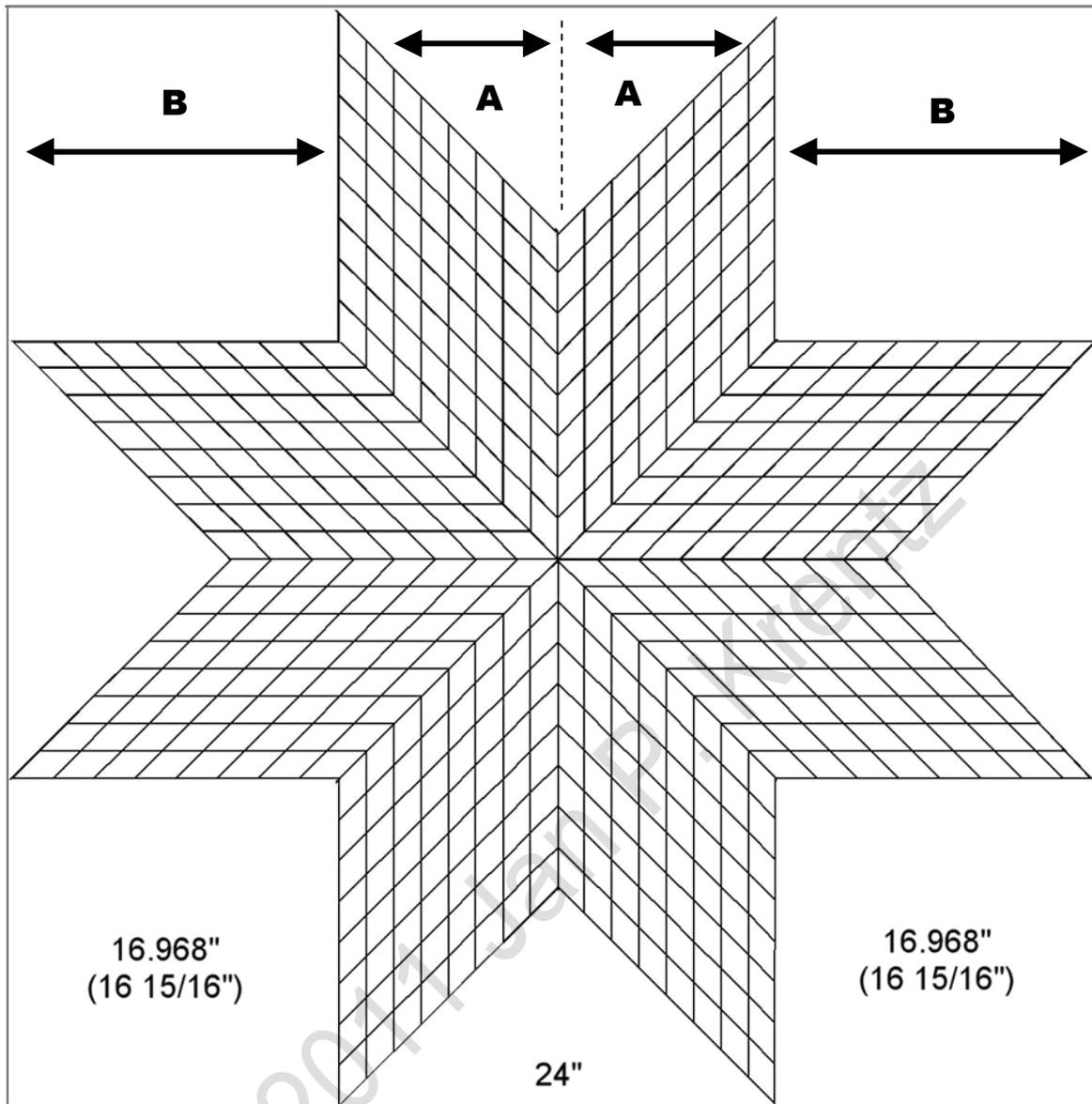


6 x 6 Broken Star

Divisions show the measurement units – using the original chart, figure the size of the diamond units.

$4 \times A + 4 \times B =$ approximate size of the finished quilt

Lone Star Calculation Steps



cut strips 2" wide; finished strip width: 1.5" Quilt Size approx. 57 15/16"

Large LeMoyne Star / Lone Star

8 x 8 layout

Strips cut 2" wide; finished size: 1.5"

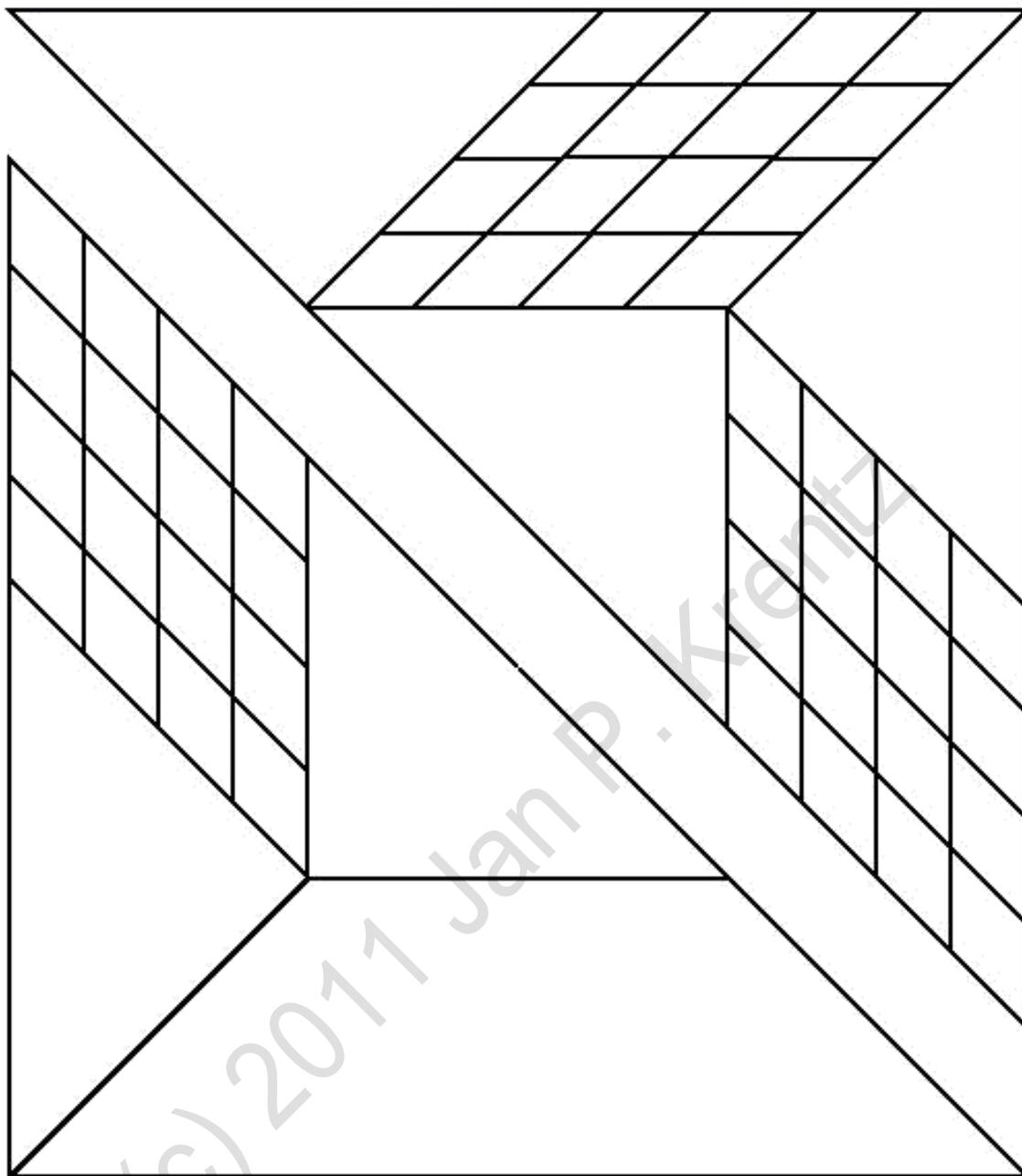
1 diamond unit – $8 \times 1.5" = 12"$

$12" \times 1.414 = 16.968"$

A = 12" B = 16.968"

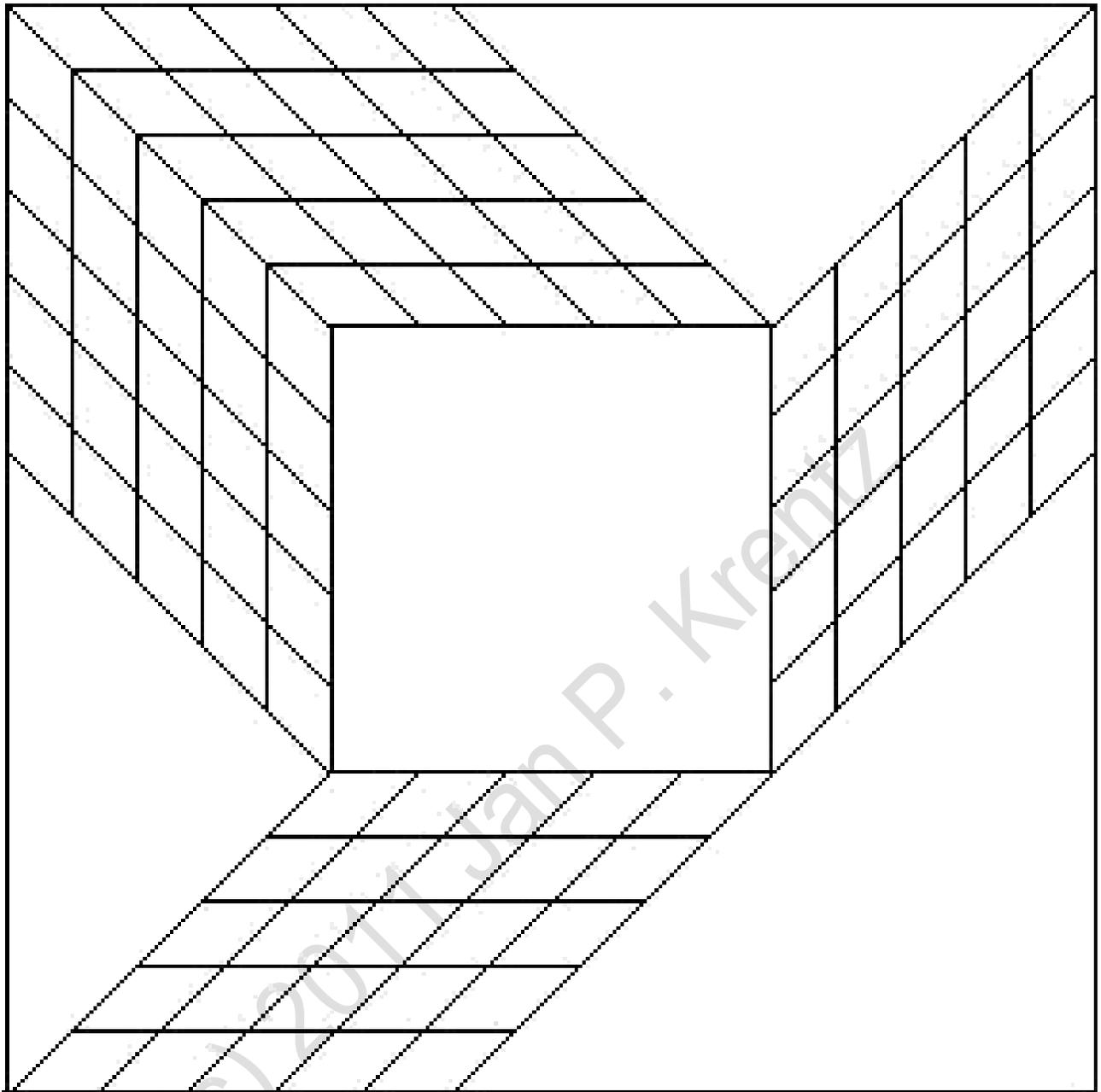
$16.968" + 12" + 12" + 16.968" = 57.936"$ or roughly 57 - 15/16"

Lone Star Calculation Steps



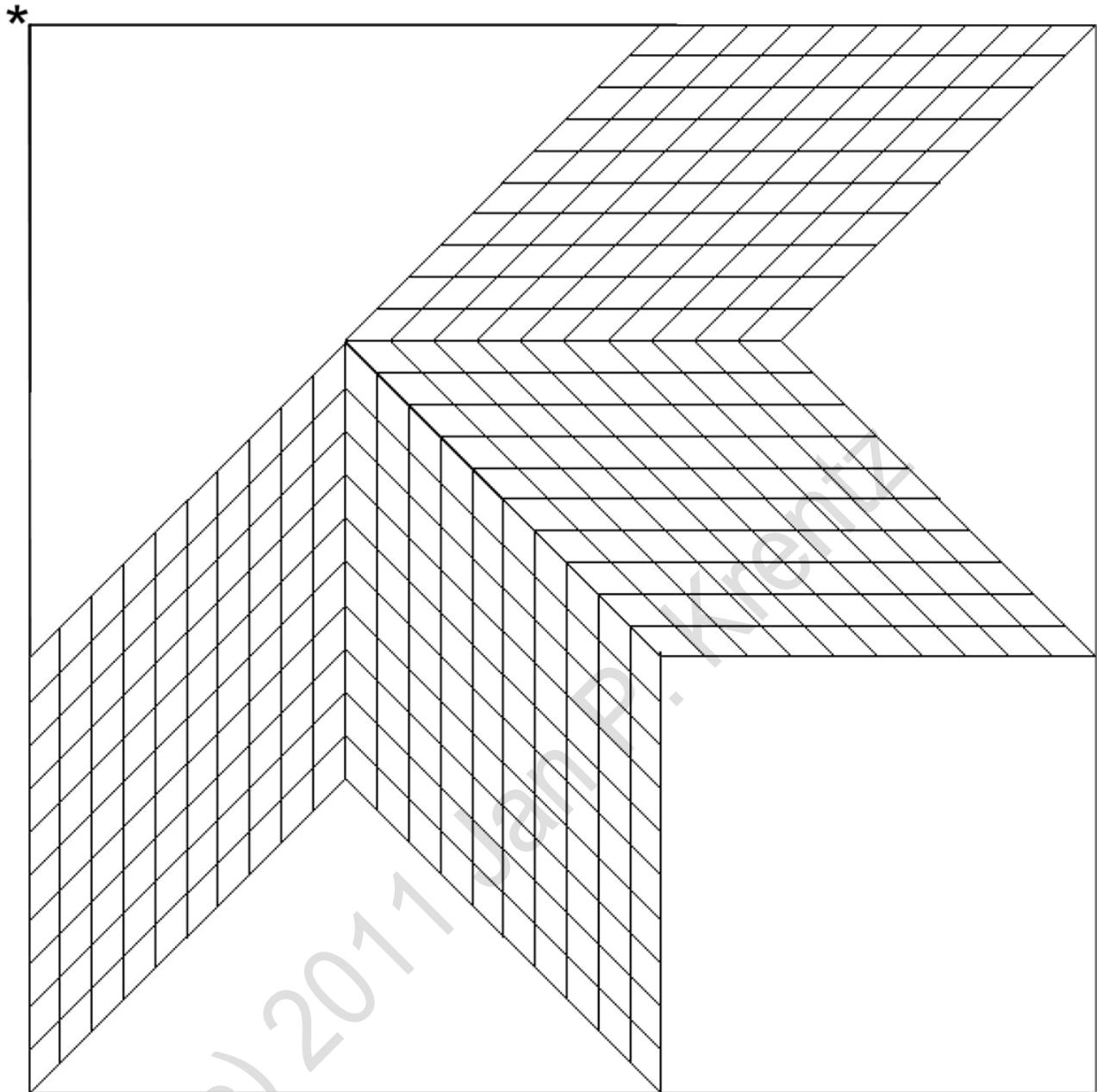
Two 4x4 Lone Star design mockups

Lone Star Calculation Steps



5x5 Lone Star design mockup

Lone Star Calculation Steps



10x10 Open Star design

One quarter of a large quilt design shown. Place mirrors at the * to view the entire design, or make 4 copies of this design, and tape together to form a complete design.

Open Star designs are a great way to feature appliqué or fancy quilting patterns in the open areas surrounding the diamond pieced work.

For Lone Star Design, the diamond shapes on this drawing may be photocopied, enlarged, cut apart to make other design mockup shapes. You may cut away excess rows to make any size you need – such as 5x5, 6x6, 7x7, 8x8 or 9x9 variations.