

Sewing: Patchwork & Quilting Techniques Project – Quilted Tent

Requirements:

Janome CM7P Sewing Machine
 AcuSpark App
 Quilt Block Advisor Software
 O - 1/4" foot (no guide)
 AD - Acufeed foot
 PDH - Free motion foot



Qty/Size	Details/Colour/Fabric
1.1m	Floral Fabric - Wall Fabric
1.5m	Black Fabric - Sashing, Border Fabric and Binding
90 cm each	Light and Dark Fabric - Roof Tiles
Assortment fat 1/4's	Light, Medium and Dark in 3 colour ways - Baby Blocks, Grandma's Garden, Lemon Star - Windows
Assortment fat 1/4's	Light and Dark in 2 colour ways - Nine Patch, Log Cabin - Windows
1.7m x 2.5m	Wadding + Backing
	Construction & Quilting Thread

Quilt Block Cutting & Construction:

- Use the Quilt Block Advisor software for the cutting instructions
- Use the free AcuSpark App for detailed piecing instructions
- Construct 2 of each block design, one for each side of the tent

Printed Fabric and Sashing's

1. Cut the following:

Qty	Size	Details
2	12 1/2" x WOF	Printed Cotton
2	8" x WOF	Printed Cotton
16	1 1/2" x WOF	Black fabric – sashing & borders
12	2 1/4" x WOF	Black fabric – binding

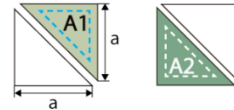
Mosaic Block Cutting

2. In the Quilt Block Advisor software, enter:

Width	37 1/2"
Rows	10
Seam Allowance	1/4"

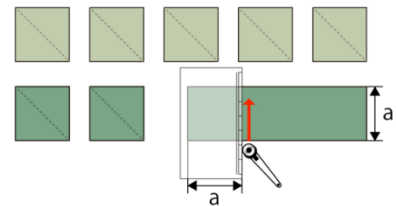
3. Cut the following:

Qty	Size	Details
50	4 5/8 x 4 5/8"	dark fabric
50	4 5/8 x 4 5/8"	light fabric



1. Cut pieces

Prepare 2 pieces of fabric (A1 and A2) in different colors. Cut squares with "a" length from A1 and A2 respectively. The number of the piece varies depending on the number of required triangle pieces.



Mosaic Block Construction

4. Draw a marking diagonally on one colour way of squares.

Overlay the two fabric squares right sides together with the line facing up.

5. Follow patchwork piecing instructions.

Trim blocks to square.

Patchwork Piecing

Press this key to open the sewing application.

Quilt Patchwork Piecing

Use 1/4" seam foot O (without guide) and sew both sides of the guideline.

Sew the left side of the guideline aligning the right edge of the foot along the guideline.

Sew the right side of the guideline aligning the guideline on the foot along the guideline.

Cut along the guideline and make two square pieces.

Fold the seam allowance toward the darker fabric and iron the strip set.

Use 1/4" seam foot O (without guide) and patch square pieces horizontally.

Overlay square pieces facing the right sides together and sew aligning the edge of the foot along the piece.

6. Lay out the squares to form 10 blocks across and 5 rows down.

Fold the seam allowance toward the darker fabric and iron the strip set.

Repeat this for the opposite side quilt.

Lemon Star Block Cutting

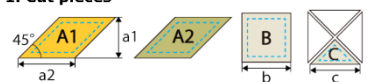
7. In the Quilt Block Advisor software, enter:

Width	7 1/2"
Seam Allowance	1/4"

8. Cut the following:

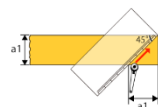
Qty	Size	Details
8	2 3/4 x 2 3/4"	Dark fabric (background)
2	4 1/4 x 4 1/4"	Dark fabric (background)
1	2 7/8" x WOF	Medium fabric cut into 8 diamonds
1	2 7/8" x WOF	Light fabric cut into 8 diamonds

1. Cut pieces

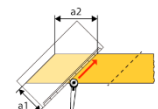


Rhombus: 8 pieces

Cut strips with "a1" width. Cut the strip aligning 45 degree line on the scale along the edge of the strip.

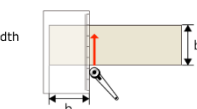


Change the direction of the cutting mat and cut the strip into pieces from left with "a1" width in parallel to the cut edge.



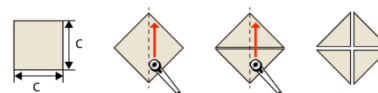
Square: 4 pieces

Cut strips with "b" width. Cut the strip into pieces with "b" width using the scale.



Triangle: 4 pieces

Cut a square C. Cut C into 4 triangles by cutting diagonal lines.



Tips

Turn the direction of mat without turning the piece.

Lemon Star Construction

9. Follow patchwork piecing instructions in the AcuSpark App.

2. Piece work (Rhombus)

Patchwork Piecing

Press this key to open the sewing application.

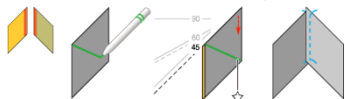
Quilt

Patchwork Piecing

Fabric A1

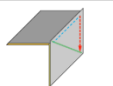
Fabric A2

Overlay A1 and A2 facing right sides together and sew them. Leave 1cm of thread free at the start and end of sewing. Fold the seam allowance to the left and iron the strip set.

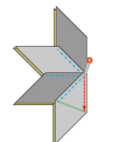


☆: At the end of sewing

Prepare 2 sets of the pieces facing the right sides together and seam a right edge of the sets. Start sewing from the start position of the previous stitch. Fold the seam allowance to the left.



Prepare 4 sets of the pieces facing the right sides together and sew from the center to out piercing the needle in the center of the pieces.

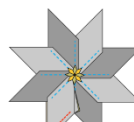


3. Piece work (Triangle)

Overlay a triangle piece on rhombus facing right sides together and pin it.



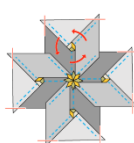
Turn out the piece. Raise the folded seam allowance and start sewing from the end point of the previous stitch.



Sew the other side of the triangle piece with the rhombus next to the triangle.

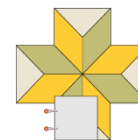
Sew the rest three pieces as the same.

Open and fold the allowance at center like a windmill. Fold other allowances one-sided. Cut the triangle shaped seam allowance protruded from the piece.

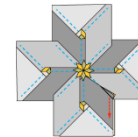


4. Piece work (Square)

Overlay a square piece on rhombus facing right sides together and pin it.



Turn out the piece. Raise the allowance and start sewing from the end point of the previous stitch. Be careful not to flip the allowance at the end of the stitches. Sew to the edge of the piece.



Sew the other side of the square piece with the rhombus next to the square.

Sew the rest three pieces as the same. Fold an allowance one-sided like a windmill.

Nine Patch Cutting

10. In the Quilt Block Advisor software, enter:

Width	7 ½"
Rows	5
Seam Allowance	¼"

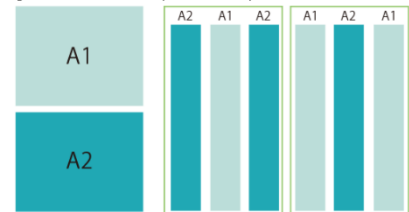
11. Cut the following:

Qty	Size	Details
26	2 x 2"	dark fabric
24	2 x 2"	light fabric

1. Cut pieces

Prepare 2 pieces of fabric (A1 and A2) in different colors.
Cut 3 strips of fabric from fabric A1 and 3 strips of fabric from fabric A2.

Arrange the A1 and A2 strips alternately.



Size of pieces

Width of a strip includes its seam allowance.
The length of the strip varies depending on the size of the quilt block.
All strips should be the same size.

Nine Patch Construction

12. Follow patchwork piecing instructions in the AcuSpark App.

2. Making strip sets

Patchwork Piecing

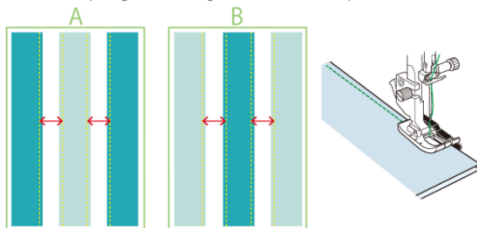
Press this key to open the sewing application.

Quilt

Patchwork Piecing

Attach the 1/4" seam foot O.

Stitch the strips right sides together to make strip sets A and B.

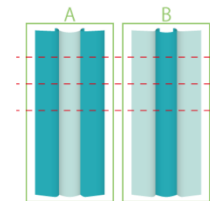


Tips

Fold the seam allowance toward the darker fabric and iron the strip set.

3. Cut the strip sets.

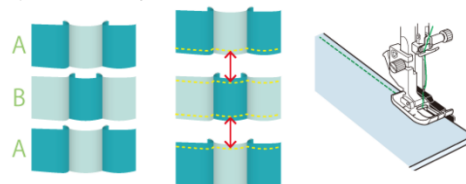
Cut strip sets A and B into width size.



4. Stitch the sets

Arrange set A piece and set B piece alternately to form nine patch quilt block patterns.

Stitch set A pieces and set B pieces right sides together to form a nine patch block using 1/4" seam foot O.



Log Cabin Cutting

13. In the Quilt Block Advisor software, enter:

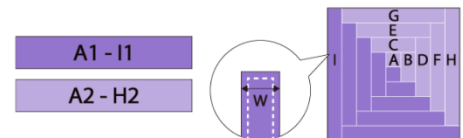
Width	7 ½"
Rows	5
Seam Allowance	¼"

14. Cut the following:

Qty	Size	Details
2	2 x 2"	dark fabric
2	2 x 3 ½"	
2	2 x 5"	
2	2 x 6 ½"	
2	2 x 8"	
2	2 x 2"	
2	2 x 3 ½"	
2	2 x 5"	
2	2 x 6 ½"	
2	2 x 8"	

1. Cut pieces

Cut strips with W width.



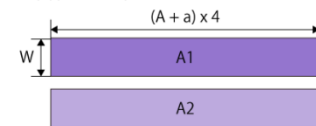
Strip length - Piece A

Add 2cm (Approx. 3/4") to each "A" piece in order to make sure you have enough room when cutting.

4 pieces of "A" will equal the total strip length.

The same calculation applies to Piece B and thereafter.

a: 2cm (Approx. 3/4")



Log Cabin Construction

15. Follow patchwork piecing instructions in the AcuSpark App.

Except there will only be 2 blocks so just follow the placement of each piece.

2. Piece work

Patchwork Piecing

Press this key to open the sewing application.

Quilt

Patchwork Piecing

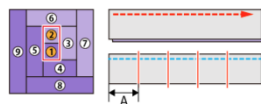
Fabric A1-I1

Fabric A2-H2

Overlay ① and ② facing right sides together and sew them.

Cut strips with "A" length.

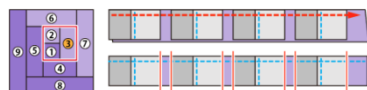
Fold the seam allowance toward the darker fabric and iron the strip set.



Arrange the patched piece on strip ③ facing right sides together and sew them.

Cut the edge evenly and cut off the patched pieces.

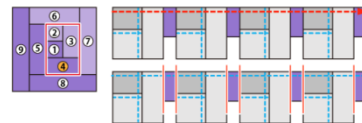
Fold the seam allowance outward and iron the strip set.



Arrange the patched piece on strip ④ facing right sides together and sew them.

Cut the edge evenly and cut off the patched pieces.

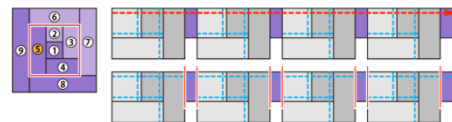
Fold the seam allowance outward and iron.



Arrange the patched piece on strip ⑤ facing right sides together and sew them.

Cut the edge evenly and cut off the patched pieces.

Fold the seam allowance outward and iron.



Patch the rest pieces as the same.

Grandma Garden Cutting

16. In the Quilt Block Advisor software, enter:

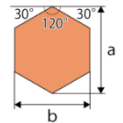
Width	10''
Circle	2
Seam Allowance	¼''

17. Cut the following:

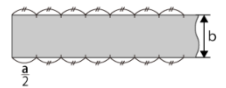
Qty	Size	Details
1	3 x 3''	Dark fabric cut into 2 hexagons
1	3'' x WOF	Medium fabric cut into 12 hexagons
2	3'' x WOF	Light fabric cut into 24 hexagons

1. Cut pieces

Cut strips with "b" width.



Cut the edge of the strip at right angles and mark both upper and lower edge of the strip.



Draw the crossed line connecting the marks to make hexagon and cut them.



Grandma Garden Construction

18. Follow patchwork piecing instructions in the AcuSpark App.

2. Piece work

Fabric

Fabric

Arrange the pieces as the completion status.

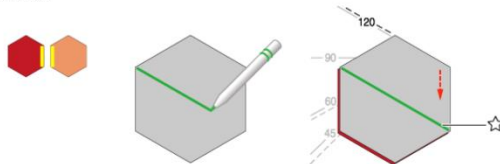
Patchwork Piecing

Press this key to open the sewing application.

Quilt

Patchwork Piecing

Place the adjacent two pieces facing right sides together and sew one side.



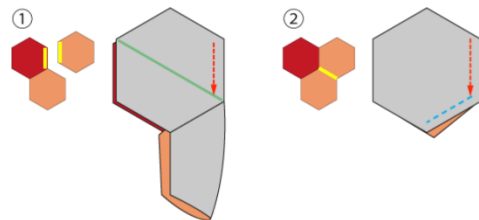
☆:At the end of sewing

Sew the third piece.

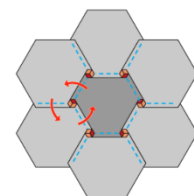
When sewing ①, fold the other piece not to contact the guide of the foot.

When sewing ②, fold the other piece inside.

Sew the rest piece as the same.



Fold an allowance one-sided like a windmill and sew sequentially.



Baby Blocks

19. In the Quilt Block Advisor software, enter:

Width	7 1/2"
Rows	4
Seam Allowance	1/4"

20. Cut the following:

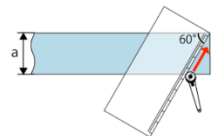
Qty	Size	Details
1	2 3/8" x WOF	Dark fabric cut into 12 diamonds
1	2 3/8" x WOF	Medium fabric cut into 12 diamonds
1	2 3/8" x WOF	Light fabric cut into 16 diamonds

1. Cut pieces

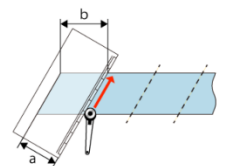
Cut strips with "a" width.



Cut the strip aligning 60 degree line on the scale along the edge of the strip.



Change the direction of the cutting mat and cut the strip into pieces from left with "a" width in parallel to the cut edge.



Baby Blocks Construction

21. Follow patchwork piecing instructions in the AcuSpark App.

2. Piece work

-  Fabric A1
-  Fabric A2
-  Fabric A3

Make a hexagon patching 3 rhombuses.

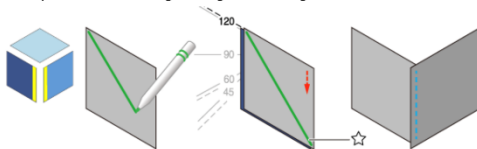


Patchwork Piecing

Press this key to open the sewing application.

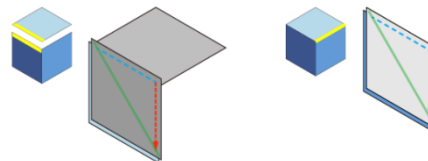


Overlay A2 and A3 facing the right sides together and sew them.



☆: At the end of sewing

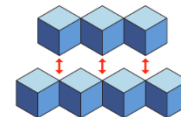
Overlay A1 piece facing the right sides together and sew them. Start sewing from the start position of the previous stitch. Fold the rest of the piece inside and sew.



Patch the sets of hexagons horizontally.



Patch the sets of hexagon patched horizontally. Fold an allowance one-sided like a windmill and sew sequentially.



Quilt Construction

22. Square the ten window blocks to 8" and layout in the order you like them for each side.
 Seam the five blocks together in a row. Press the seams.
 Note: You may need to add fabric to the width to build the strip to a similar width as the triangle roof section.

23. Using the quilt layout guide seam the rows together from top to bottom. Press all seams

24. Layer the quilt front with wadding and backing.

25. Quilt with desired quilting method so all layers are stitched together.

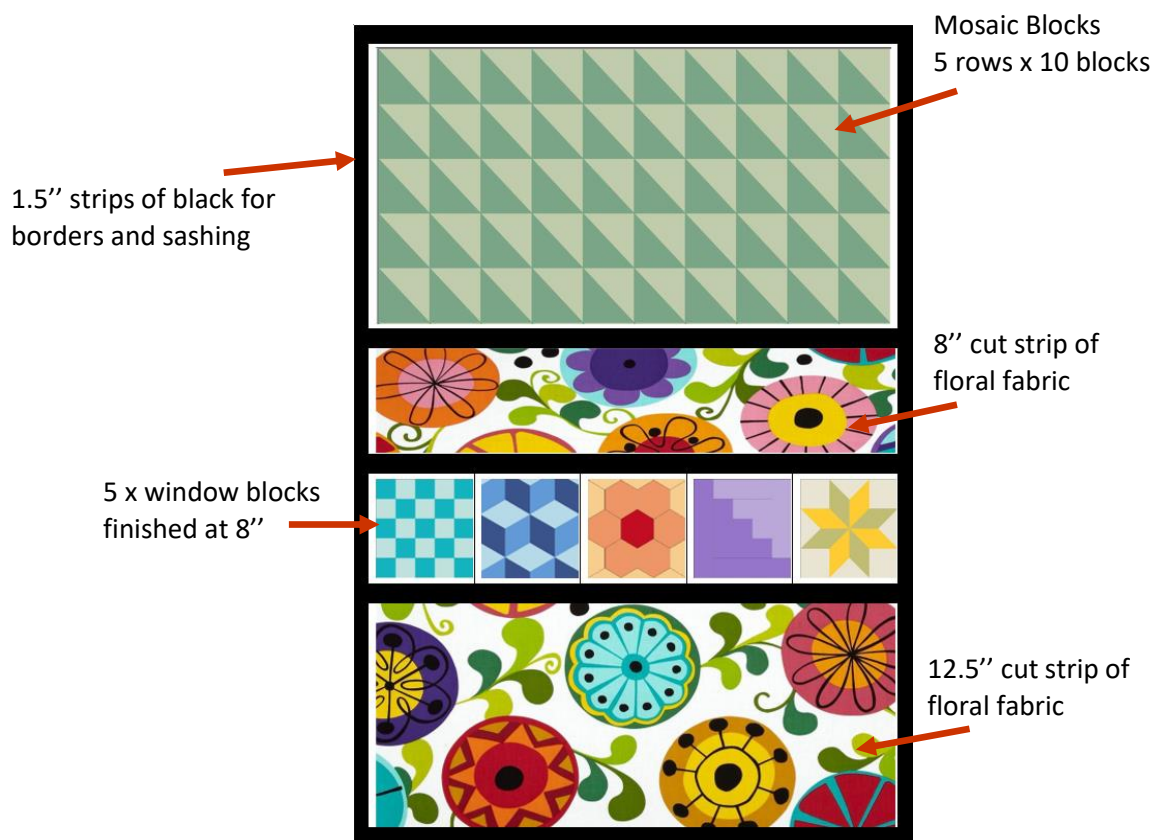
26. Attach the binding to each quilt.

27. Build the frame of the tent and tie the quilts to either side of the frame.

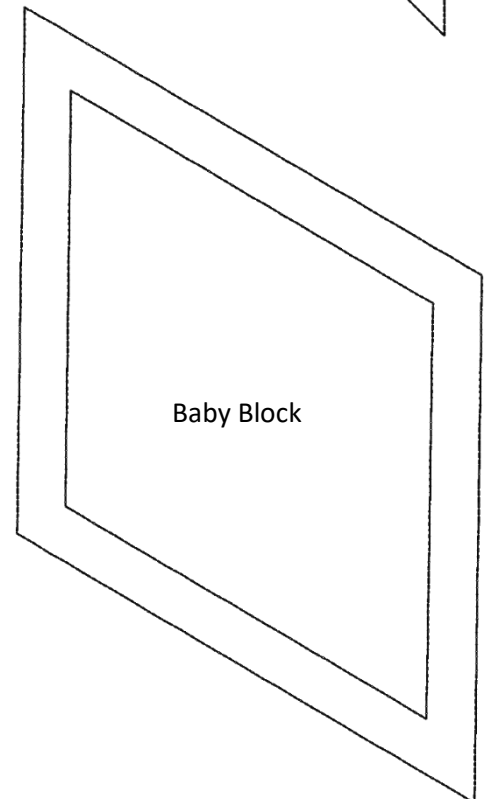
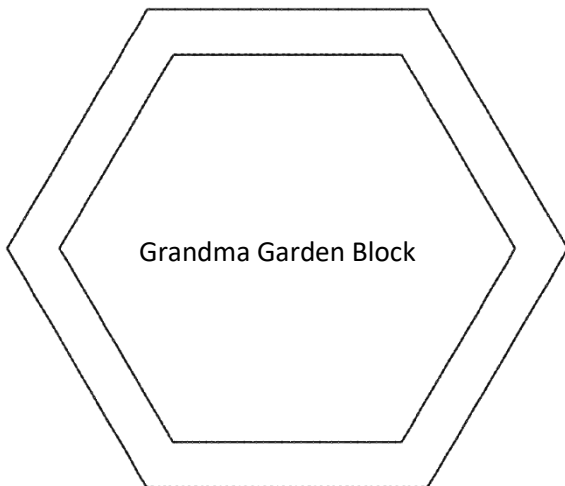
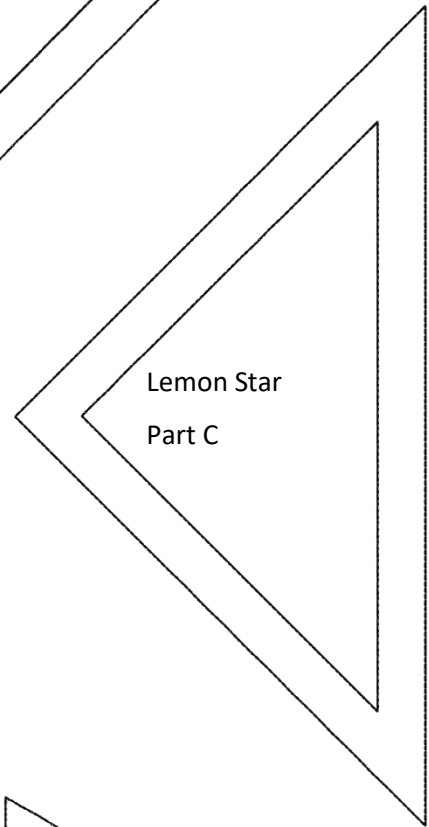
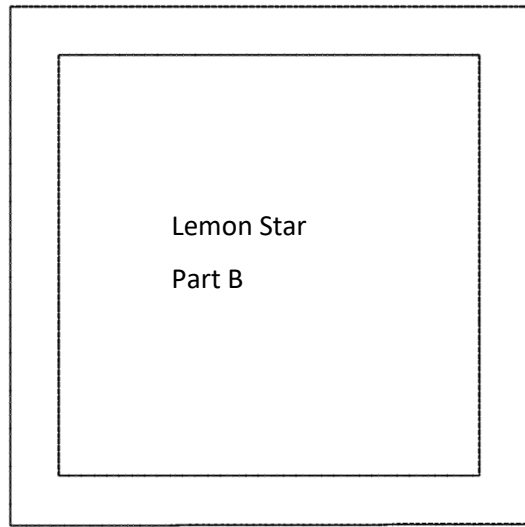
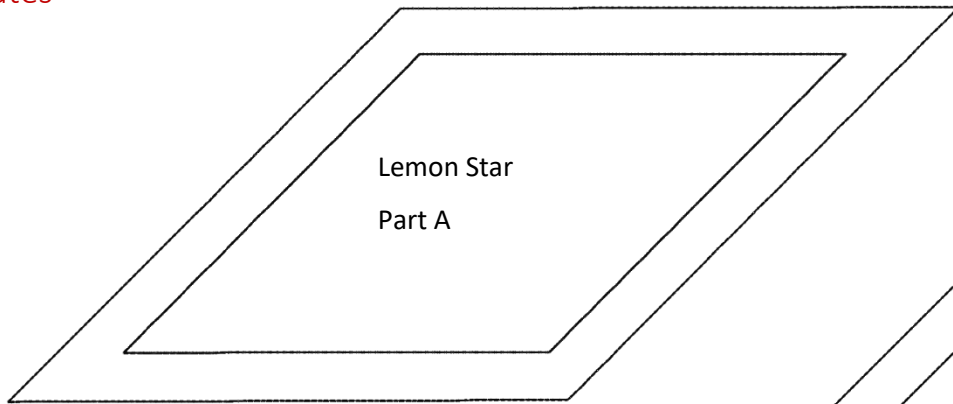
28. Lay the frame on the wrong side of the quilt and mark out positions to attach the ties to.
 Hand sew the ties onto the back of the quilt.

29. Tie the quilts to either side of the frame and your tent is complete.

Quilt Layout and Quick Reference Guide



Block Templates



Tent frame construction

Requirements:

Qty	Size	Details
3	16mm x 1mtr	Dowel
4	1.2mtr	Wood
2	20cm	Cotton tape
		Staple Gun
		Drill with 16mm drill bit

Construction:

1. Drill holes into either end of the 4 pieces of wood.
2. Inset the dowel into the holes to connect both ends of the frame.
3. Stab the cotton tape from one side of the wood to the other so that the 'A' frame is held open.
4. Secure the dowel at the ends with a split pin to hold the frame from falling apart.
5. Attach the quilts to either side of the frame.

