



PVC PIPE TENT TUTORIAL



.....If you are a minor please make with an adult.....

Supplies:

Tape Measure
Saw (a handsaw or an electric saw)
Sharpie for marking
Glue *optional (good for plastic)
Spray Paint (good for plastic)

Materials:

2 - ½" X 10ft PVC Pipe
2 - ½" 90° elbow
4 - ½" T Shaped elbow
4 - ½" 45° elbows
4 - ½" 90° 3 way elbow

Tips:

Please Read through all instructions before starting your project.

Use a sharpie to mark all your cuts and cut with your saw blade right on top of your sharpie mark.

Push the Elbows onto the straight PVC Pipe pieces hard so they fully connect.



90 degree elbow



45 degree elbow



T shaped elbow



90 degree 3 way elbow

What Pieces to Cut:

Cut 1st 1/2" X 10ft PVC Pipe into

5 - 20.75" pieces

1 - 12" piece

2 - 1.5" pieces

Cut 2nd 1/2" X 10ft PVC Pipe into

1 - 21" piece

4 - 15" pieces

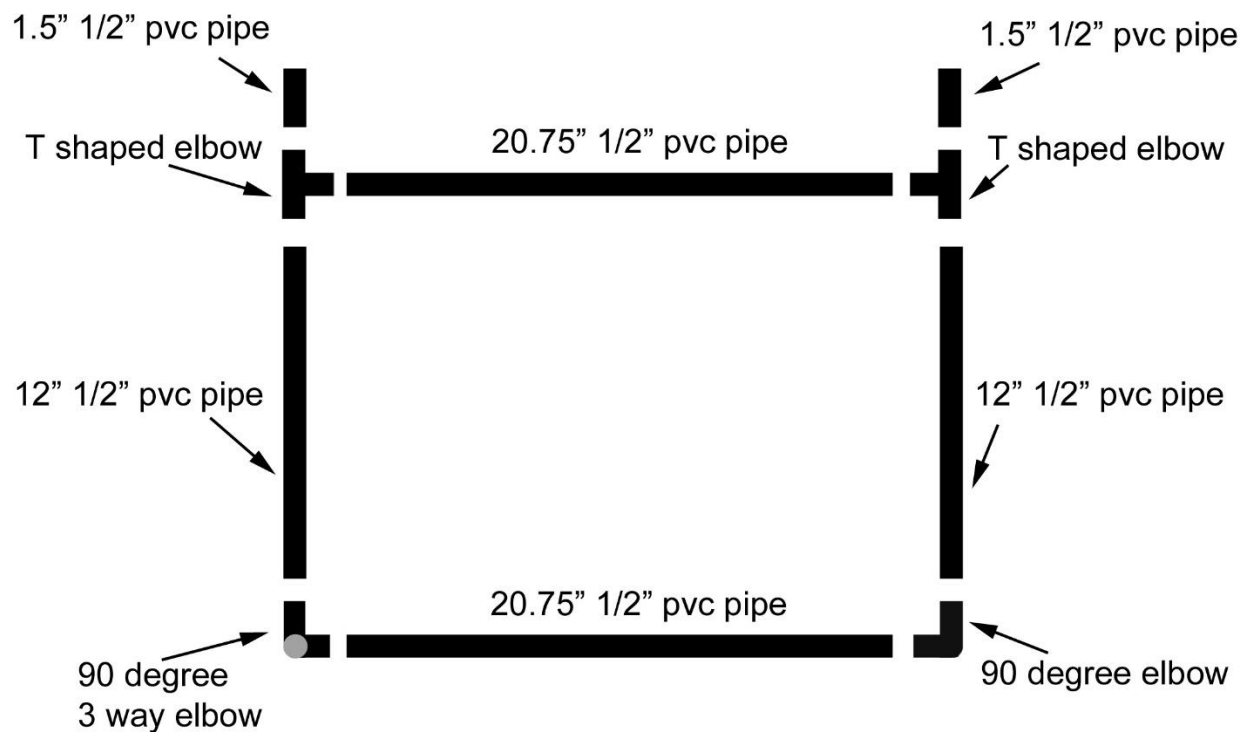
3 - 12" pieces

2 - 1.5" pieces

Assemble the sections:

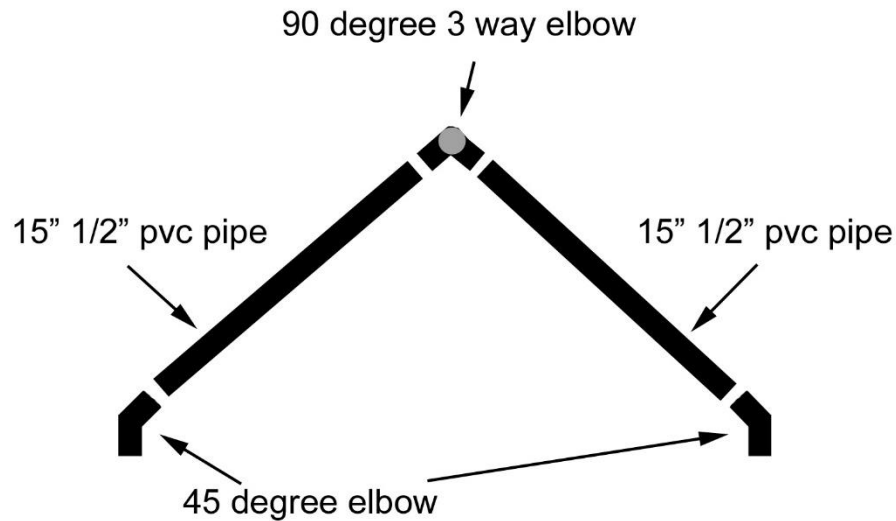
Sides:

Make two sides as shown below. Lay all pieces flat on table and then connect.
Swap the 90 degree 3 way elbow with the 90 degree elbow on the second one.

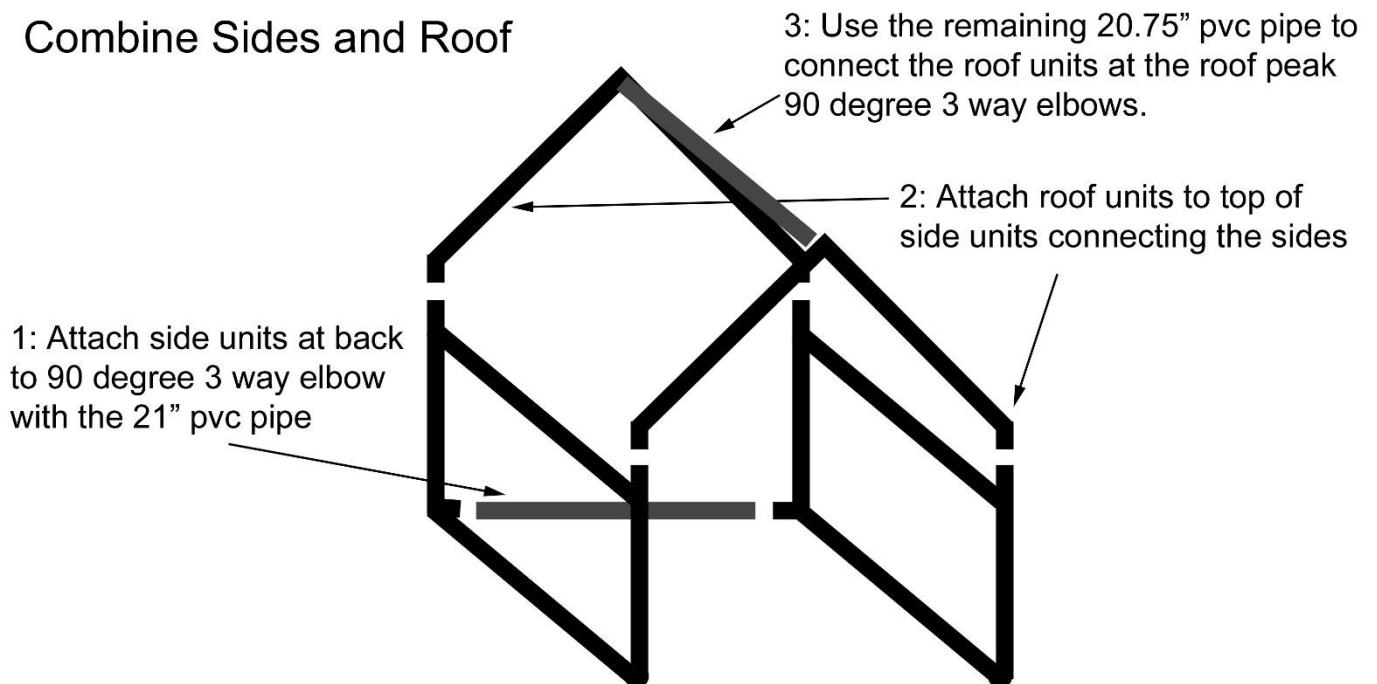


Roof:

Make two roof sections as shown below. Lay all pieces flat on the table and then connect. Attach a 45 degree elbow on the bottom of each 15" pvc pipe and then connect two sections with a 90 degree 3 way elbow at top.



Combine Sides and Roof



Final Details:

Optional Glue

If you would like to glue the elbows onto one of the straight pieces to keep them from getting lost do that now.

For example.... Glue a 90 degree elbow to the end of a 20.75" piece. Don't glue any other pieces to those.

If you would like to glue all the pieces together do that now instead.

*Note: If you glue all the piece together it will not be able to be unassembled ever. But gluing just one elbow to one of the ends it connects to, will allow the little pieces to not get separated from the larger pieces and lost during storage.

Optional Paint

I would recommend painting your tent structure to cover up any markings printed on the PVC pipe.

Outside in the open air set your Completed Tent Structure on a spot that can get paint on it (maybe grass), or lay down a tarp or cloth larger than the tent.

Using Spray Paint for plastic (available at most hardware stores) spray the whole Tent Structure after it has been built. Remember to turn over and spray the bottom once the top is dry.

Thin even coats of paint are the best way to get a nice finish and no drips.

I do not recommend painting the individual pieces of pipe and elbows before assembly. The elbows may not connect as easily after it is painted and the paint could scratch.

Continue to the next page to make the fabric cover.



FABRIC COVER TUTORIAL



Supplies:

Sewing Machine

Scissors

Rotary Cutter *optional

Large Ruler or Measuring tape

Materials:

3 yards of Fabric (42" wide quilting cotton weight).

7.5" x 12.5" piece of clear vinyl fabric 10 /12 gauge thickness. (purchase ¼ yard)

4 yards of Ribbon that coordinates to your fabric (for ties)

Thread that coordinates to your fabric.

Tips and Terms:

Baste means to use a temporary long stitch roughly 5 length with no backstitching.

All final seams are stitched at 2.5 length and back stitched at beginning and end.

To Serge or Zigzag edges of fabric keeps the fabric from fraying and produces a more finished product.

Finger Press is using your fingers to press a seam the direction you want it to lay after it is sewn instead of using an iron.

Fabric Cutting Instructions:

Quilting Cotton Fabric (assumes your fabric is 42" wide between selvages)

*Note: Pattern is written to Serge or ZigZag edges not in a seam. Length would need to be added to have a turned under hem on some pieces.

1 Back Piece: 25.5"w X 30"t

Cut to a peak (see diagram)

2 Front Pieces: 16"w X 30"t

Cut to a semi peak (see diagram)

2 Side Plackets: 24.5"w X 3.5"t

2 Side Flaps: 24"w X 17.25"t

1 Roof Piece A: 24.5"w X 18.5"t

2 Roof Piece B: 12.5"w X 5.75"t

2 Roof Piece C: 6.5"w X 18.5"t

Vinyl:

1 Window Piece D: 12.5"w X 7.5"t

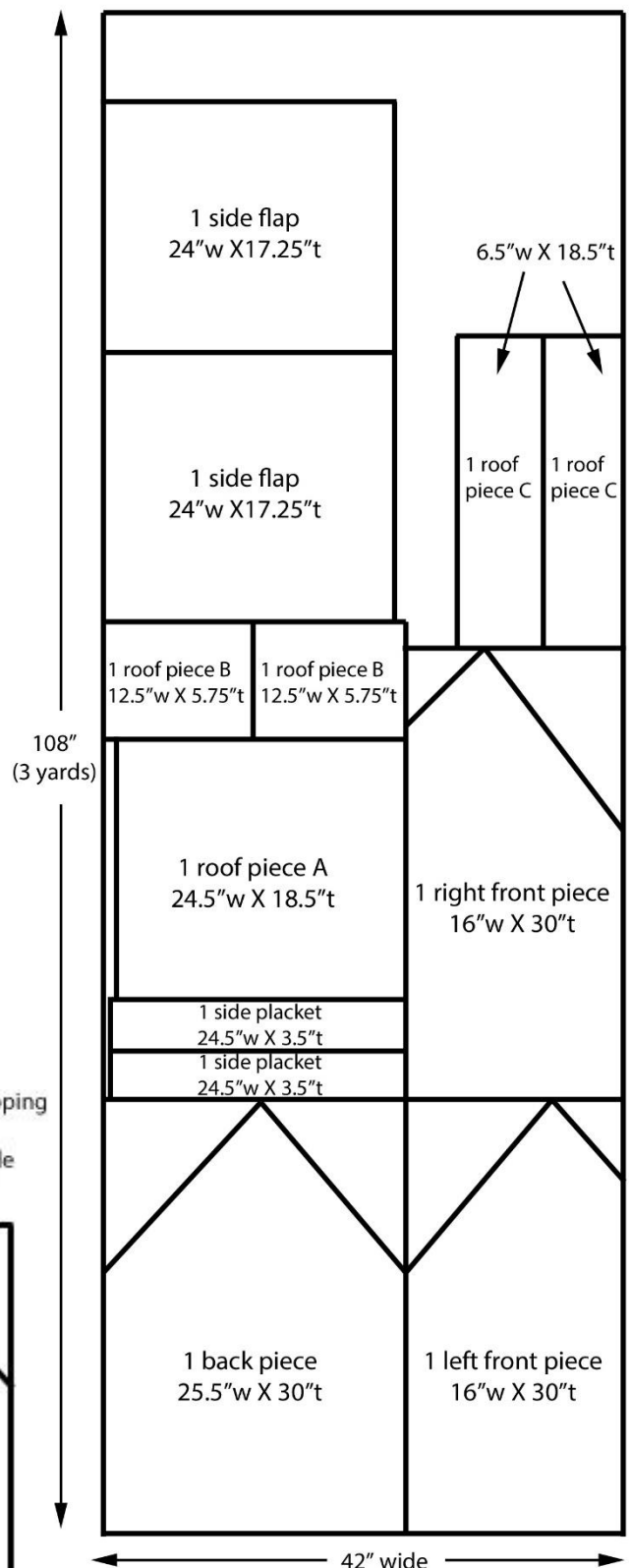
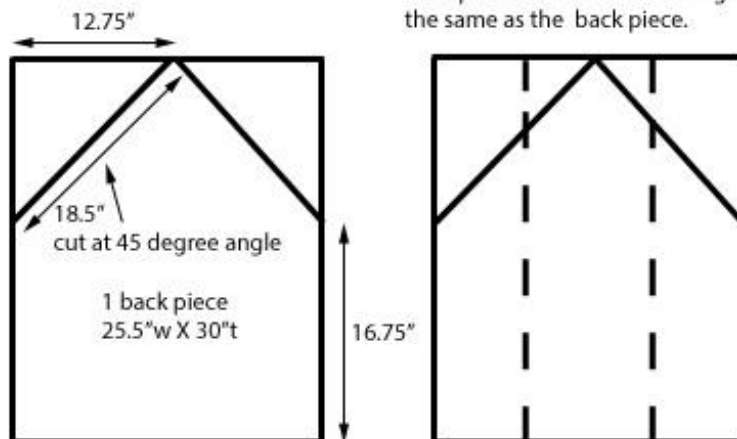
Ribbon:

8 Pieces: 10" long (side ties)

4 Pieces: 12" long (front ties)

Cut the peak using a 45 degree angle for both sides of peak.

Lay the two front pieces overlapping so they equal the width of the back piece and cut the roof angle the same as the back piece.



Sewing Instructions:

All Seams are sewn with a $\frac{1}{4}$ " seam allowance. Do not use an iron on the vinyl.

Sew Roof section with vinyl window:

Sew a Roof Piece B (12.5"w x 5.75"t) to the top and bottom of the Vinyl Window Piece D.

Serge or zigzag seams and finger press away from vinyl.

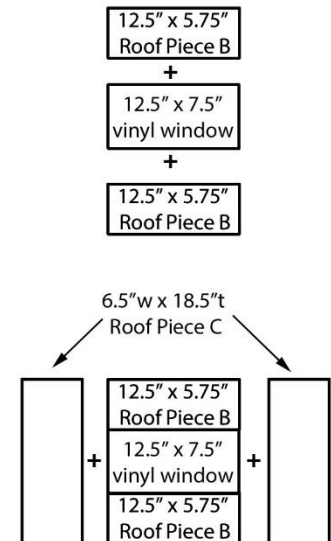
Top stitch along the edge of the seams on the fabric pieces.

Sew 1 Roof Piece C (6.5"w x 18.5"t) to either side of the section you made above.

Serge or zigzag seams and finger press away from vinyl.

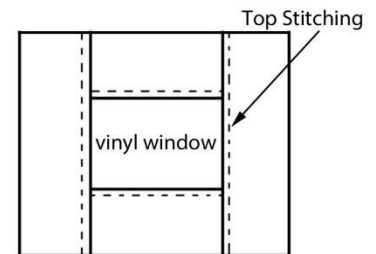
Top stitch along the edge of the seams on the fabric pieces.

Trim this whole Roof section to 24.5"w x 18.5"t if needed. Serge or zigzag around exterior edges.



Finish Edges:

Serge or ZigZag around all edges of remaining pattern pieces.



Make Side Flaps:

Attach the 10" long ribbons to top of the Side Flap (24" x 17.25").

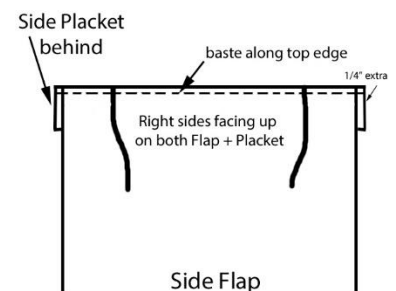
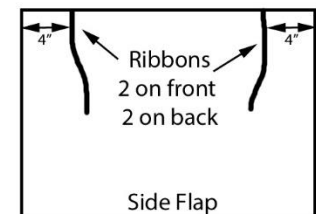
Measure 4" in from each side and lay a ribbon on the top of the flap and baste $\frac{1}{8}$ " from the edge.

Lay a ribbon on the wrong side of the flap directly behind the ribbons on top and baste.

Center the Side Flap on top of the Side Placket aligning the top edges, with both fabrics facing up.

The Side Placket will stick out $\frac{1}{4}$ " on each side from behind the Side Flap.

Baste $\frac{1}{8}$ " from the top edge to connect the Side Flap to the Side Placket.



Make Front Tent Opening:

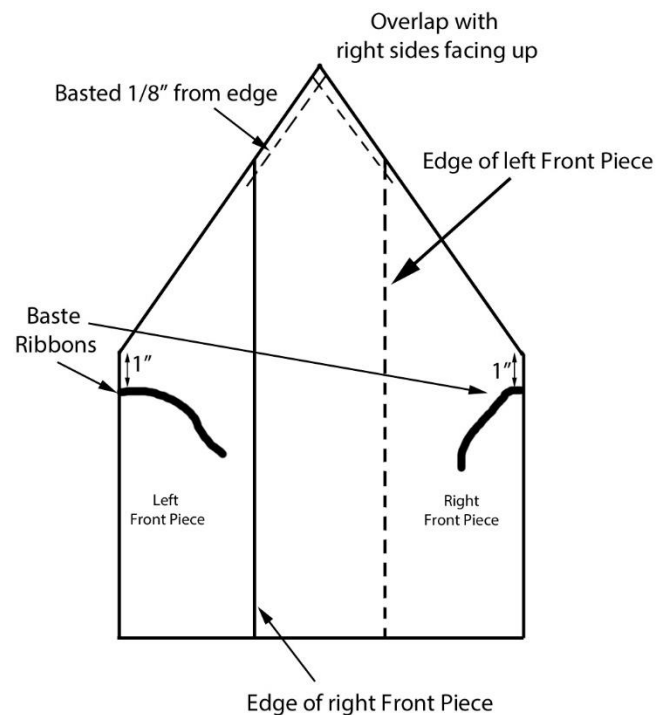
Lay the two Front Pieces overlapping each other to be the same size as the Back Piece.

After the two Front Pieces are aligned the same as the Back Piece pin the Front Pieces together along the top edge where they overlap.

Baste the two Front Pieces together along the top edge where they overlap using a 1/8" basting stitch. The two basted Front Piece should be the same size as the Back Piece.

On both sides of the Front Piece measure 1" down from the top of the side (where the roof angle meets the straight side) and baste a ribbon on the front.

Lay a ribbon on the wrong side of the Front Piece directly behind the ribbons on the top and baste.

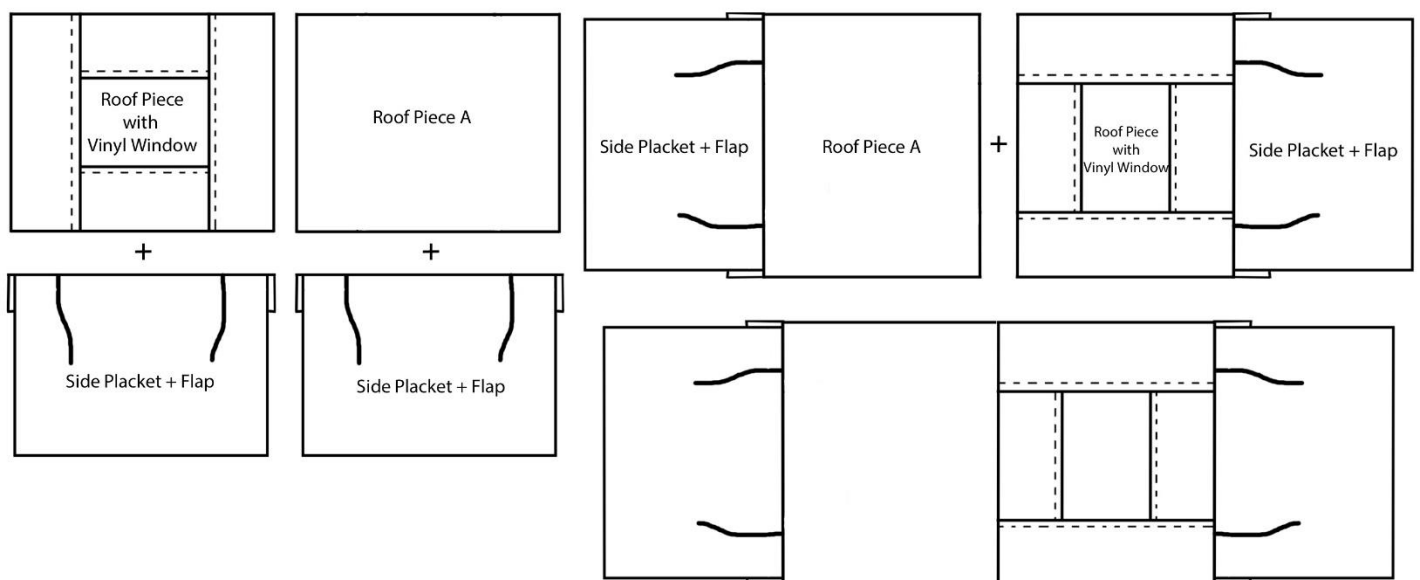


Assemble All Tent Pieces:

With right sides together Sew a Side Flap + Placket to the bottom of Roof Piece A. Repeat for 2nd Side Flap + Placket and 2nd Roof Piece with the Vinyl Window.

With right sides together sew the two Roof pieces together along the top unsewn edge.

Now you will have a long piece consisting of Side Flap + Placket – Roof Piece A – Roof Piece with Window – Side Flap + Placket. Referenced as *Long Piece (Roof + Side) now.



Assemble All Tent Pieces Continued...

Pin the Side Flaps towards the middle away from the edge of the Side Placket. When sewing be careful to not catch the Side Flaps in the Side seams.

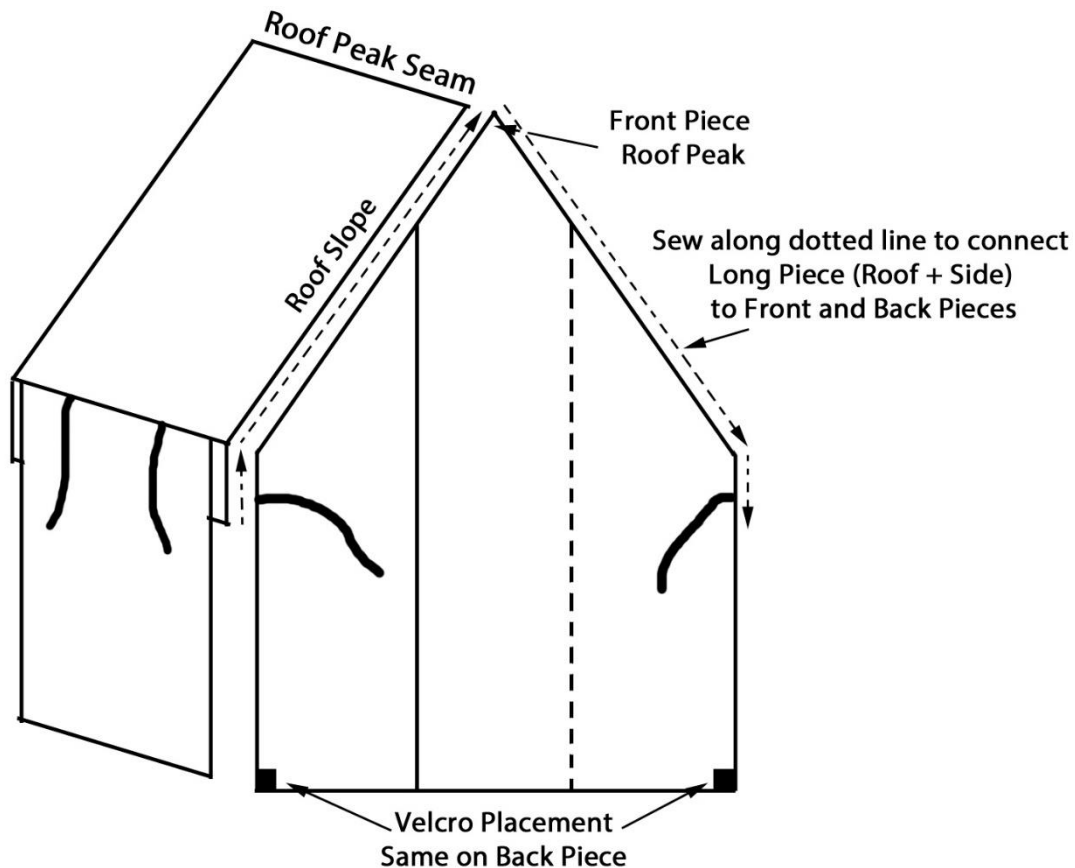
Align the Roof Peak Seam of the Long Piece (Roof + Side), sewn in last step, with the top point of the Front Piece.

Pin the aligned edges down the Roof Slope. Continue pinning the Side Placket to the side of the Front Piece making sure to not catch the Side Flap in the pinning.

Do the same down the other side of the Roof Slope of the Front Piece, and the Side of the Front Piece.

Sew along the edge where you pinned. Removing the pins as you go. Sew all the way from the bottom of one Side Placket, slight turn to go up the Roof Slope, Pivot at the Roof Peak and sew back down the other Roof Slope, slight turn to sew to the bottom of the opposite Side Placket. You have connected the Front Piece to the Long Piece (Roof + Side).

Repeat for the Back Piece. Making sure to Pin right sides together.



Once the Back Piece is sewn on, you can turn the whole thing right side out and put it over your tent frame.

Final Touches:

I recommend using Velcro and adhering a small 1" square of Velcro at the bottom outside of the front and back Tent frame and the bottom inside corners of the Front and Back Pieces. This holds the tent cover tight on the tent frame.

I used sticky back Velcro on the frame (you could also glue sew-on Velcro), and I used sew-on Velcro for the tent cover.



You did it! Enjoy your 18" Doll Sized Tent!!!