

Measure and identify the parts: Label them with sticky notes using the names from the parts list, and check them off the parts list so you know you have everything. **Taking the time now to identify and organize the parts also makes them familiar so you will understand what the instructions intend** as you read ahead.

- Plan ahead so you know where you are going
- Read ahead so you know how to get there
- Paint ahead so the parts will be ready when you need them.

Review the techniques on the first few pages of your dollhouse instructions (a copy of which can be found at www.realgoodtoys.com - scroll down to "assembly instructions"). Pay particular attention to these sections:

- Dye shingles
 - Glue selection
 - Taking things apart
 - Getting the best from your masking tape
 - Painting
- ... or visit www.realgoodtoys.help**

Parts: (measurements are approximate and for identification purposes only)

2	J1180	Gazebo Base	1/4	117/8	117/8	angle	cutout
2	J1181	Front Base	1/4	271/2	53/8		
2	J1182	Side Base	1/4	125/8	53/8		
1	J1183	Cricket Triangle	1/4	69/16	15/16	angle	
2	J1184	Front Foundation	3/8	301/8	11/4	groove	
2	J1185	Side Foundation	3/8	205/8	11/4	groove	
7	J1186	Middle Foundation	3/8	47/8	11/4		
2	J1187	Corner Foundation	3/8	47/8	11/4	bevels	
3	J1188	Gazebo Foundation	3/8	43/4	11/4	bevels	
7	J1189	Roof Support Triangle	3/8	53/16	7/8	angle	
1	J1190	Rail Assembly Spacer	3/8	95/16	7/8	grooves	
7	J1191	Gazebo Roof	1/8	81/8	415/16	angle	bevels
1	J1192	Corner Roof	1/8	81/8	415/16	angle	bevels cutout
1	J1193	Front Roof	1/8	289/16	51/2	angle	
1	J1194	Side Roof	1/8	1311/16	51/2	angle	
2	J1195	Gazebo Flashing	1/8	21/2	3/4	angle	
2	J1196	Cricket Roof	1/8	311/16	59/16	angle	
11	RGT5B	Turnpost 91/4		(7/16 x 7/16)	91/4		
3	J1197	Plainpost 91/4		(7/16 x 7/16)	91/4		
bag	E3622	(115) 1/8Dowel 133/4	1/8	Dowel	13/4		
bag	J1198	(133) 1/8Dowel 1	1/8	Dowel	1		
bag	T1004	(700) Shingles					

Not suitable for children under 13 years of age
California 93120 compliant for formaldehyde phase 2



Rails (B-Rail)		length	bevels
4	g	Front	95/16
3	h	Front	7
6	i	Side	59/16
3	j	Corner	51/16 45//221/2
3	k	Corner	51/16 45\221/2
9	l	Gazebo	45/16 221/2\221/2
6	m	End	43/8
Nosings (3/8Nosing)			
1	n	Front	2715/16 221/2\221/2
1	o	Side	13 221/2\221/2
3	p	Gazebo	51/4 221/2\221/2
1	q	Corner	51/16 221/2//221/2
1	r	Corner	51/16 221/2\221/2

Supplies you will need:

- Paint: Interior semi-gloss latex paint... Everything gets at least one coat before assembly - get the paint now.
- Paintbrushes 1" or 2" foam brushes for painting
- 3/16 paint brush for railings; 4" Foam paint roller for floors
- Sandpaper: several sheets of 320 grit, one of 100 grit
- Glue: Aleene's Tacky Glue for the porch
- Solvent-Based panel cement* for shingles
- Masking tape: 3/4" or 1" 'high tack' (sticky) yellow tape
- Craft Knife (such as X-Acto) with a new, sharp blade

Overview of the Build:

Details of each step will be expanded along the way, but lots of builders like to see how it all fits together before they start.

- Identify and label all of the parts
- Pre-assemble the Foundation and Porch Base sets
- Dye the Shingles and draw guidelines on the Porch Roofs
- Paint everything that will be painted one coat
- Option: Faux-wood floor finish on the floor
- Sand everything until the paint is smooth, transparent, and some of the wood is showing through
- Decide on the order of painting/assembly*

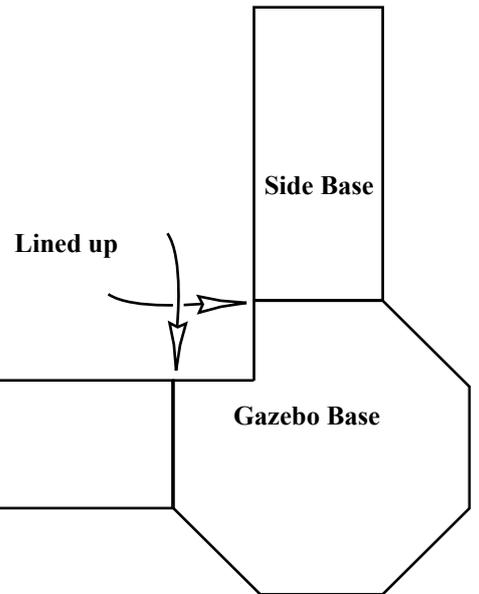
- *Assemble the Railings
- *Assemble the Railings/Posts
- *Second-coat as decided
- Attach the Foundation together and to the house
- Assemble and attach the Porch Bases, Rails, and Posts
- Shingle and attach the Gazebo roofs
- Wiring? Run wire for ceiling lights now^{see www.realgoodtoys.help}
- Attach Roof Supports and Porch Roofs
- Shingle

*See www.realgoodtoys.help for more info

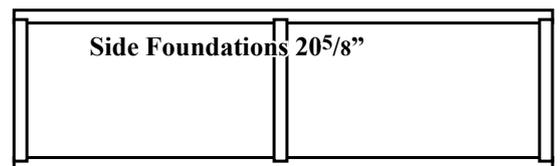
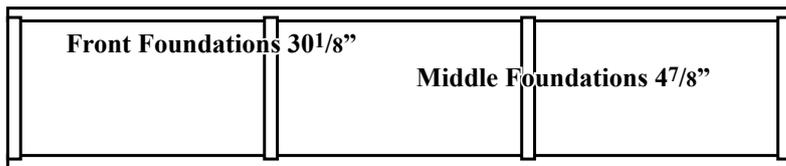
These parts can build a right or a left Wraparound Porch. These illustrations show a right orientation - for a left Wraparound Porch, reverse the diagrams.

1. Pre-Assembly

a. Glue and tape together two Porch Base sets, lined up carefully on the inside edges and on both surfaces. Hold the Porch Base sets against the housebody to confirm that they fit seamlessly - adjust if necessary.



b. Glue and tape together the Front and Side Foundation sets.



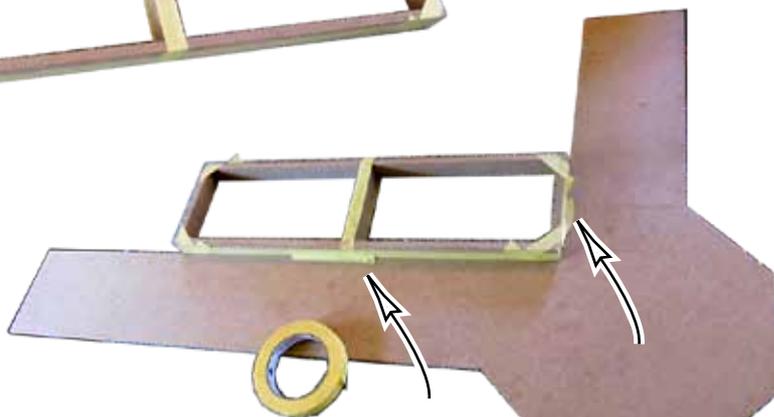
Tape around



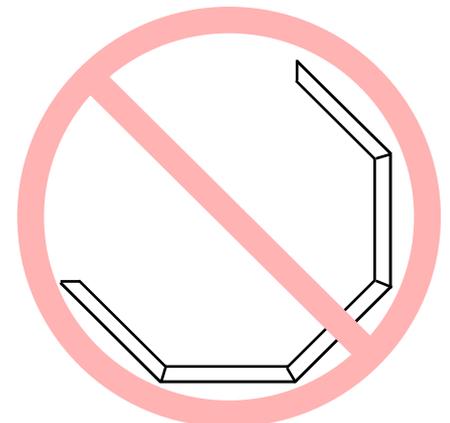
tape across



Tape diagonally at the corners top and bottom



Tape each Foundation Set into the corner of a Base Set to hold it square as the glue dries.



Do not pre-assemble the Gazebo/ Corner Foundations... they must be built in place or they won't fit.

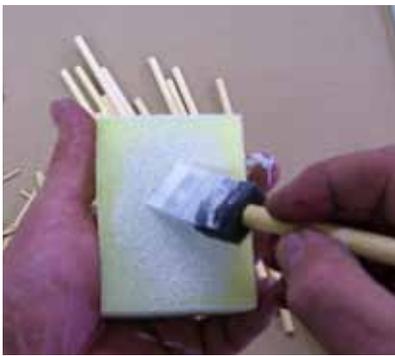
Painting

2. Paint (the first coat) and sand the Posts and Rails before assembly. Wipe any paint out of the grooves, and do not paint the Rail ends at all. Paint and sand the Dowels:

- a. Dab paint onto a small-celled sponge, less paint is better (a small-celled sponge looks like sponge rubber. Our local dollar store sells small-celled sponges with a scrubby back - cut in half, they are just right). Put several Dowels on the sponge; rub a second sponge across the top, rolling the Dowels across the paint-sponge.
- b. Spread the painted Dowels on waxed paper. Move them around every minute or so as the paint dries.
- c. Paint all of the Dowels; let the paint dry.
- d. Lightly rub the dowels around with sandpaper (a small handful at a time) to sand off the raised grain.



**Paint the Rails;
do not paint the ends**



Small-celled sponge



A few dowels



A small amount of paint



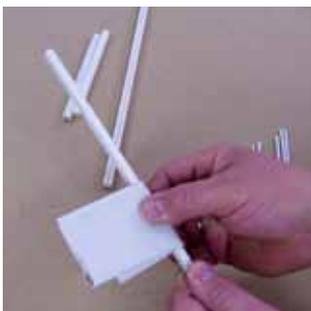
Less paint is better



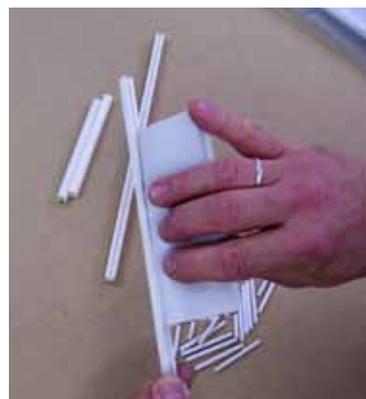
Waxed paper



Move often



Sand down to the wood



Sand the groove



Scrub with sandpaper

Second-coat the Railings after they are assembled (next)

Now is a great time for all the first-coat painting. Do not paint the Roofs, Support Triangles, the top or edges of the Porch Ceiling (one Base Set) or the bottom of the Porch Floor (the other Base Set). Do not paint the backs or ends of the Nosing, the ends of the Rails or Posts, or the Foundations (yet). Paint the face (the wider surface) of the Cricket Triangle. See www.realgoodtoys.help for more on painting and sanding.



Review Painting and Sanding in your house instructions or at www.realgoodtoys.help

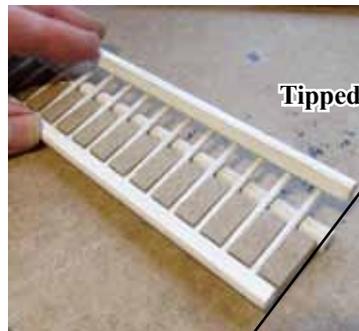
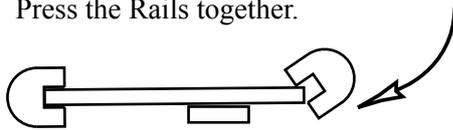
3. Assemble the Railings:

a. Select two Rails $9\frac{5}{16}$, the $1\frac{3}{4}$ " Dowels, and prepare a small puddle of glue. Set one Rail alongside the Rail Assembly Spacer, lined up on the ends.

Dip one end of a Dowel into the glue and poke it into the Rail at a groove in the spacer. Continue adding Dowels one for each groove. Tip the Spacer onto the Dowels, lined up on the ends with the Dowels straight.



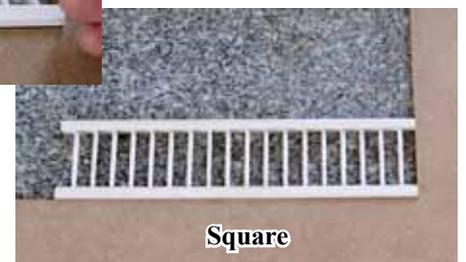
b. Dab a spot of glue onto the end of each dowel. Hold the second Rail $9\frac{5}{16}$ over the dowels with the rail tipped so the groove will capture all the dowels' ends and the glue, and with the ends of the Rail lined up with the Spacer. Press down on the second Rail to flatten and line up all the dowels' ends, then rotate the Rail so the Dowels slide into the groove. Press the Rails together.



Lined up

Press together

c. Put the Railing Set into the square corner of a Base Set. Line up the ends. Straighten any crooked dowel by levering it on the end. Clean up excess glue. Let the glue dry.

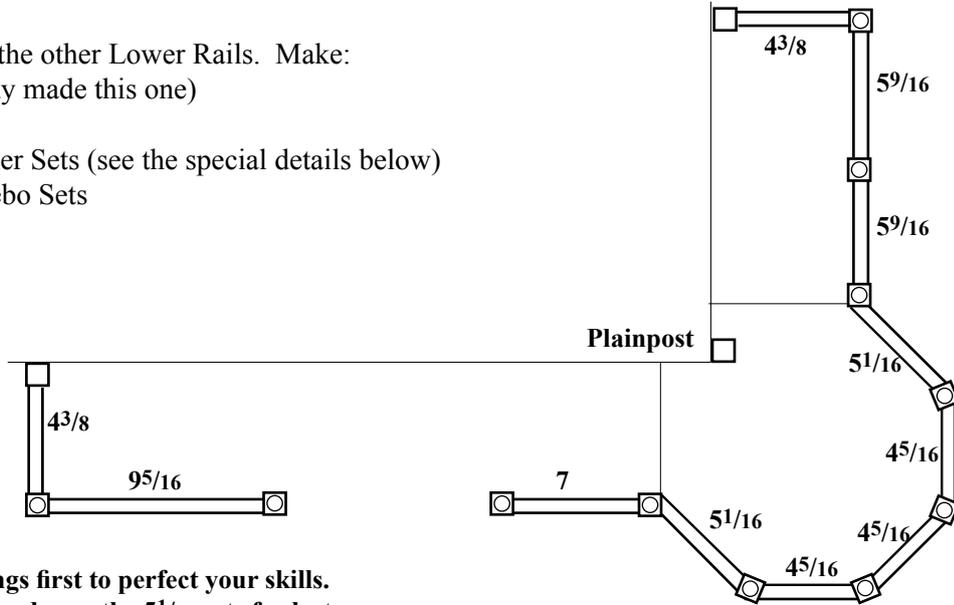


Only one Lower Railing of this size will be made... the other $9\frac{5}{16}$ Rails will be used on Upper sets.

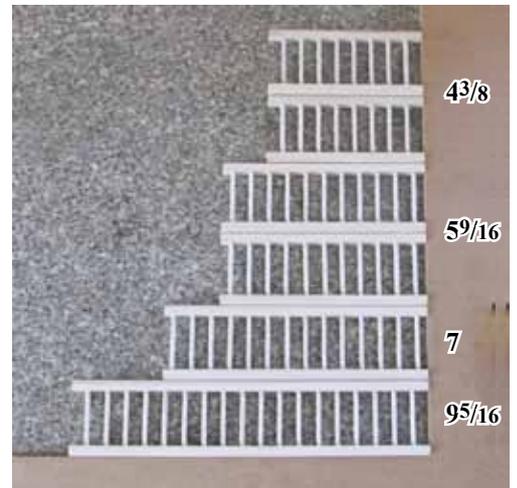
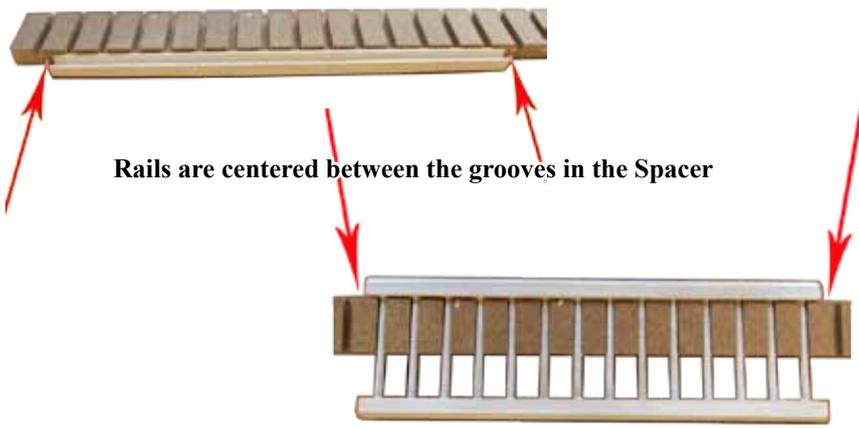


- d. Repeat these steps for the other Lower Rails. Make:
- (1) $95/16$ Set (you already made this one)
 - (1) 7" Set
 - (2) $51/16$ (beveled) Corner Sets (see the special details below)
 - (3) $45/16$ (beveled) Gazebo Sets
 - (2) $59/16$ sets, and
 - (2) $43/8$ sets

- Plainpost
- Turnpost



Make all the square Railings first to perfect your skills. Then make the $45/16$ sets, and save the $51/16$ sets for last.



Un-Beveled Railings squared-up to dry



Bevels in the top and bottom Rails aim the same



$51/16$ Rails line up on the shorter edge



Bevels in the top and bottom Rails aim the same

4. Upper Rails: Assemble Upper Railing sets using a single rail and 1" dowels. For each length match the dowel spacing of the Lower Railing of that same length. Make:

- (2) 9⁵/₁₆ Set
- (1) 7" Set
- (1) 5¹/₁₆ (beveled) Corner Set with the 22¹/₂^o bevel on the right
- (1) 5¹/₁₆ (beveled) Corner Set with the 22¹/₂^o bevel on the left
- (3) 4⁵/₁₆ (beveled) Gazebo Sets
- (2) 5⁹/₁₆ sets, and
- (2) 4³/₈ sets



Lift slightly so the glue doesn't grab



Let the glue set for several minutes before taking each Upper Railing set all the way out of the Spacer

Finish Painting everything that will be painted in the final porch now

5. Post and Rail assemblies:

- a. Set up shingles as standoffs to lift the Railings as they are glued onto the posts. Here there are two thicknesses of shingles to space the Railing away from the backstop (a foundation is being used for the backstop here), and two shingles as standoffs from the table.
- b. Test the Railings and Posts with the shingles in place. Mark where the Railings touch the Posts and scrape a spot that will be hidden in the joint so the glue has some wood to grab.
- c. Glue together a Post and 7" Railing set with a turnpost on each end. The Rail Spacer is used here (below) as a straightedge for the Upper Railing. Let the glue dry.



Mark for scraping

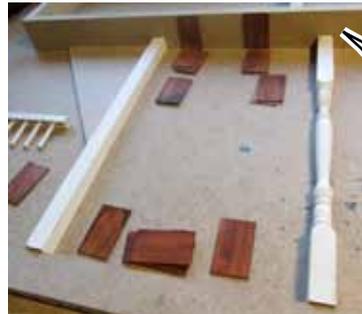


Different style post, same process

Scrape a bare spot for gluing

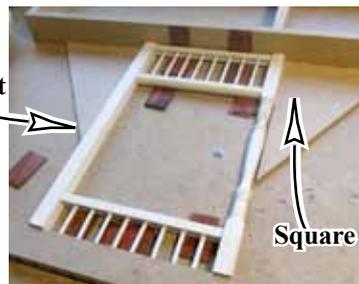


7" Post and Railing set



Shingle Standoffs

Backstop



4³/₈ Post and Railing set

Plainpost

Square



Straightedge

One left, one right

- d. Glue together two 4³/₈ Post and Railing sets, one with a Plainpost on the left and one with a Plainpost on the right. Let the glue dry.

- e. Glue together a 9⁵/₁₆ Post and Railing set using the 4³/₈ set on the left end as shown. Here, the straightedge is the other Foundation. Glue together two 5⁹/₁₆ sets and one 4³/₈ set on the right end.



A Cricket Roof is used as a square

Let the glue dry.

9⁵/₁₆ Left Corner set



5⁹/₁₆ Right Corner set

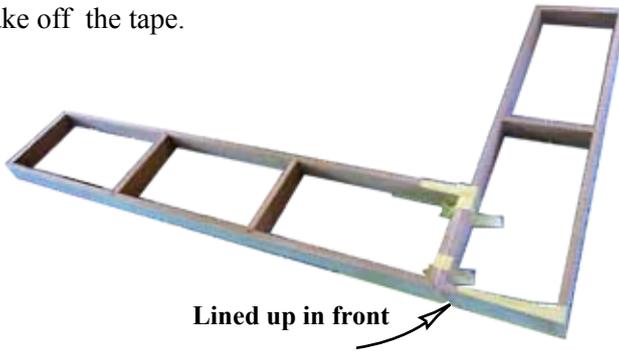


Starting now, the Porch is assembled onto the house. This porch can not be built as a standalone structure.

Make sure your work surface is flat!

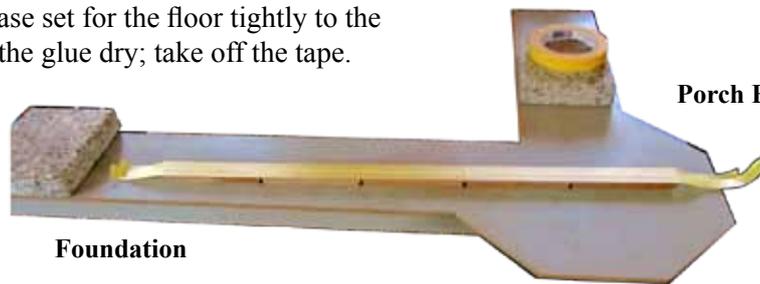
6. Porch Base.

- a. Glue and tape the Porch Foundations together, Lined up in front.
- b. Glue and tape the Porch Foundations tight to the House Foundation. Weight so everything is flat on the table. Let the glue dry; take off the tape.



Glue and tape on the end of the Front Foundation

- c. Glue, tape, and weight the Porch Base set for the floor tightly to the house and the Porch Foundation. Let the glue dry; take off the tape.



Make sure your work surface is flat!

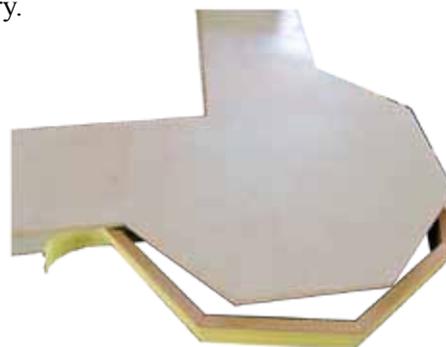
- d. Tape together the Gazebo/Corner Foundations with the Corner Foundations on the ends; the 45° (more pointed) bevels face out. Turn the set over. Lift the joints and apply glue to the “V” between Foundations and to the ends of the Corner Foundations. Wrap the Foundation set together, apply glue to the top, and glue it to the bottom of the Porch Base and to the Porch Foundation, spaced evenly. Weight the Porch Base, let the glue dry.



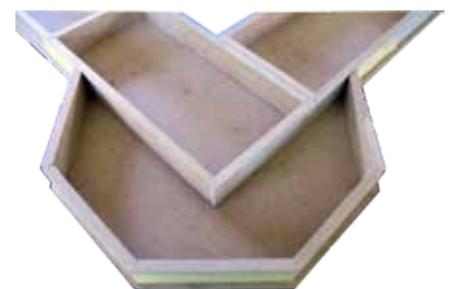
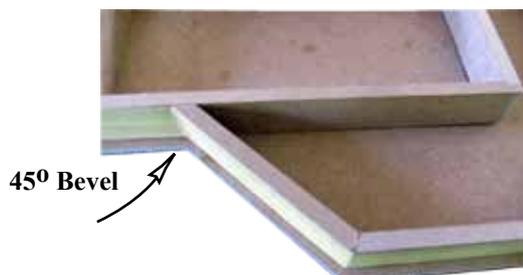
Gazebo Foundations



Glue



Glue to the bottom of the Porch Base



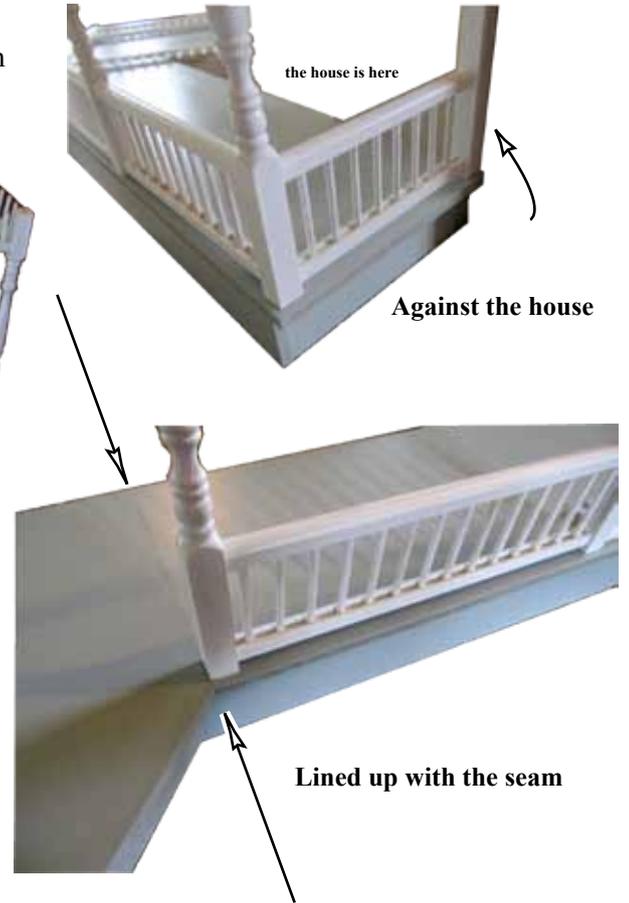
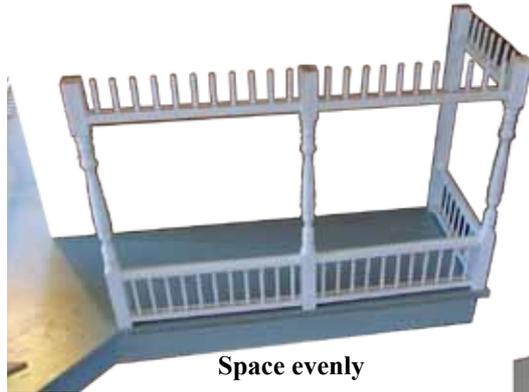
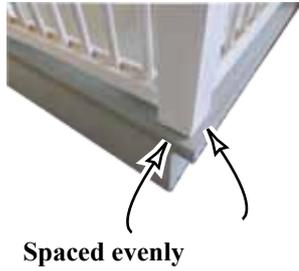
Spaced evenly

This is how it would look if you could see it from the bottom.

Let the glue dry; take off the tape

7. Install the Railing sets.

a. Set up the 5⁹/₁₆" Right Corner Post/Railing set, against the house in back, spaced evenly at the corner, spaced evenly across the edge, and lined up with the seam in the Base at the Gazebo.



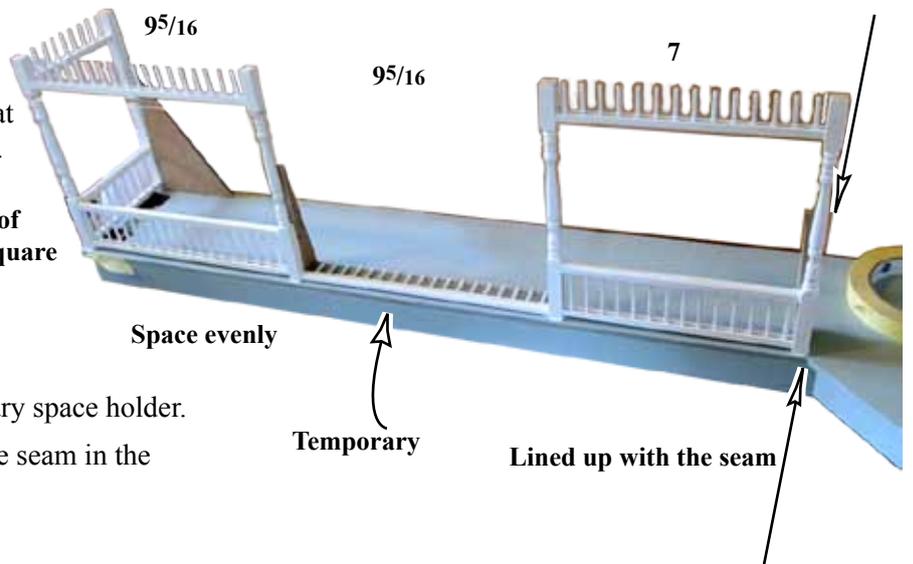
b. Mark and scrape-for-gluing the Porch Floor.
 c. Glue the Posts/Rails to the Porch and house.

Scrape for gluing



d. Set up the 9⁵/₁₆" Left Corner Post/Railing set, against the house in back, spaced evenly at the corner, and spaced evenly across the edge.

Cricket Roof used as a square



Place a 9⁵/₁₆ Upper Railing next as a temporary space holder.

Place the 7" Railing set next, lined up with the seam in the Base at the Gazebo.

Everything is spaced evenly across the front.

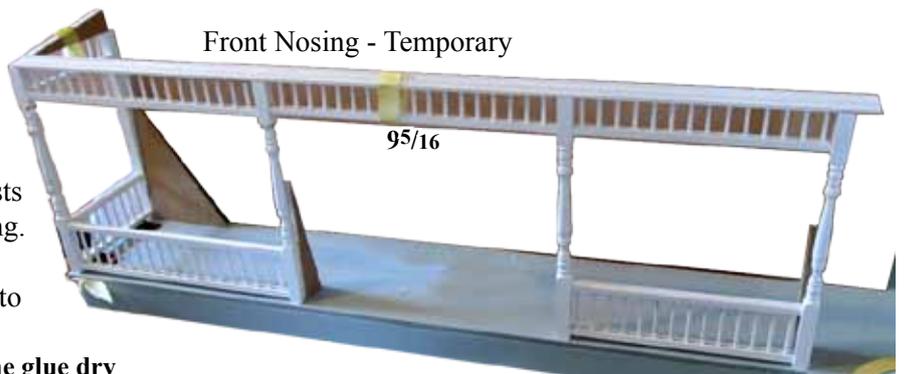
Mark and scrape-for-gluing.

Glue the Posts/Rails to the Porch and house.

Front Nosing - Temporary

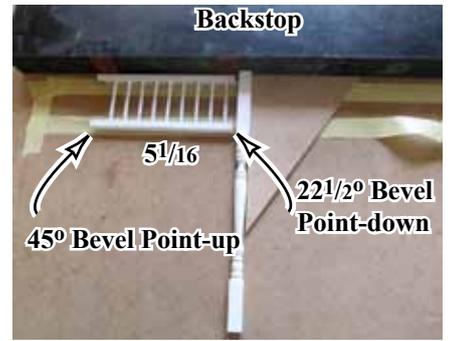
Set the Front Nosing across the tops of the posts as a temporary lifter for the 9⁵/₁₆ Upper Railing. Scrape-for-gluing, then glue the 9⁵/₁₆ Upper Railing in place between the Turnposts, taped to the Nosing.

Let the glue dry

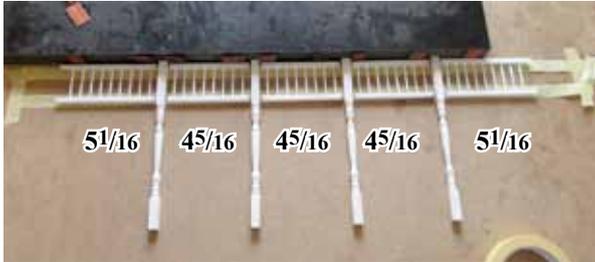


8. Install the Corner and Gazebo Posts and Railings.

- a. Lay out two 32" pieces of masking tape sticky-side-up, with a backstop for setting up the Corner/Gazebo Rails and Posts. Set up shingle standoffs against the backstop as you did for the other Post/Railing sets, but no standoffs on the table.
- b. Lay out the Posts and Rails as shown with the 22¹/₂° bevels point -down (face of the bevel is up). The Corner Railings' 45° bevels are on the ends and are point-up (face-down).



Make sure the Posts are square



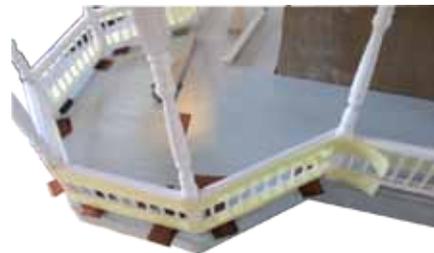
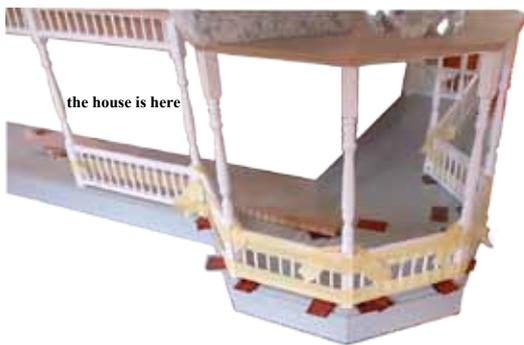
Leave a good flap of tape



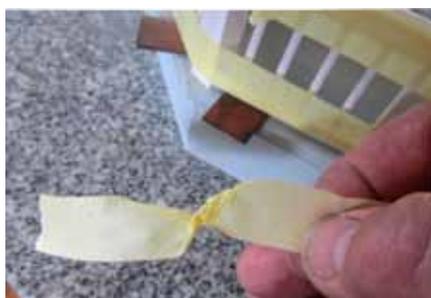
- c. Lift the joints and scrape a glue spot. Put glue on the Rail's ends. Wrap the Posts/Railings into shape ready to glue into the Porch assembly. Dab glue on the Posts' bottoms.



- d. Glue and tape the Post/Railing sets into the Porch Assembly. Set standoffs under the Railings to hold the space.



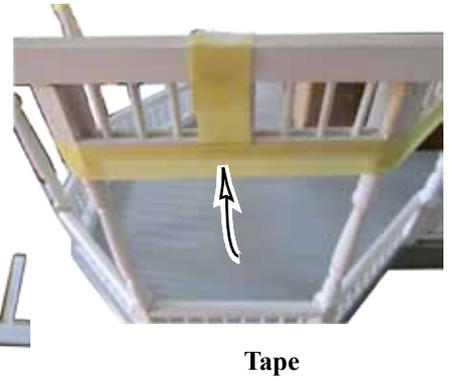
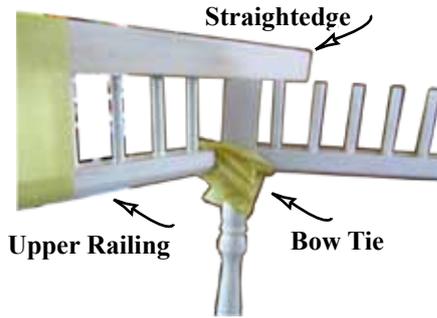
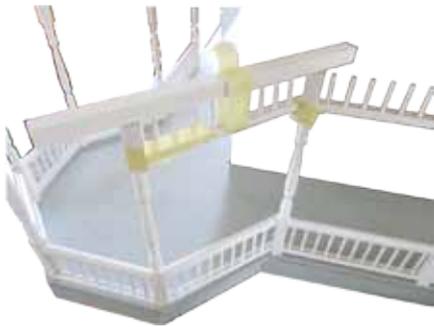
- e. Twist a section of tape one full twist to make a 'bow tie' for taping the Railings around these irregular angles. The Gazebo Railings probably need to be pulled inward to line up with the posts, and the Corner Railings probably need to be pulled outward.



'Bow Tie' tapes around an irregular corner

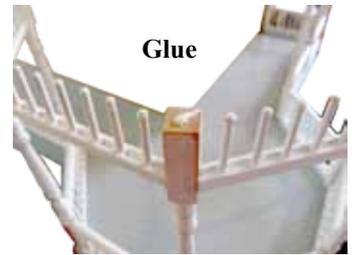
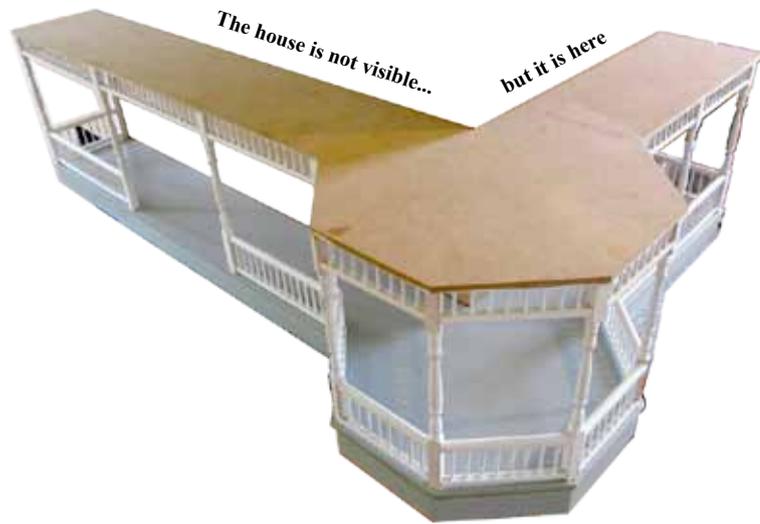
- e (continued). Set the Porch Ceiling on the Posts without glue; add weight. Adjust the bottom and top of each Porch Post to be spaced evenly at the corner. Let the glue dry.

9. Set Nosing or the remaining Plainpost across the tops of the posts as a temporary lifter for an Upper Railing. One at a time glue the Upper Railings in place, adjusting the positions as needed.



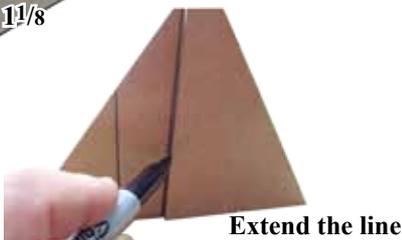
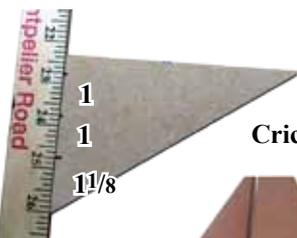
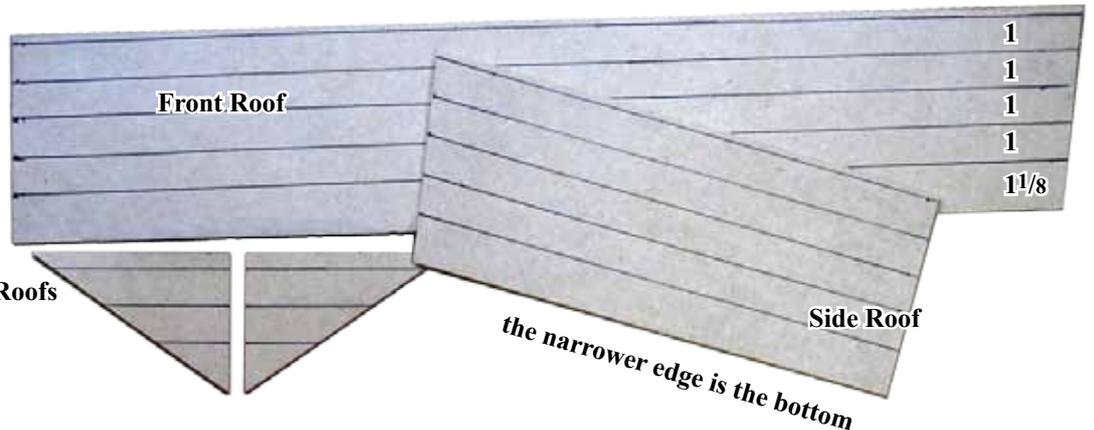
10. Glue the remaining Plainpost to the House and Porch Base, at the front of the Side (see the layout diagram on page 5)

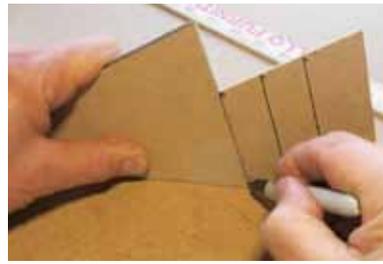
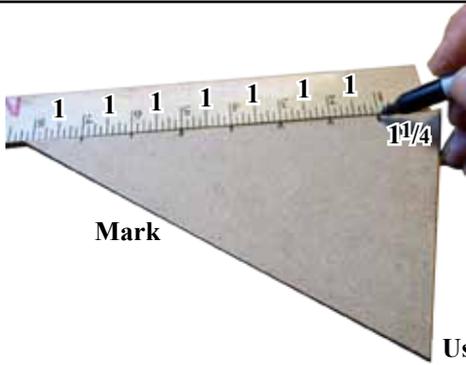
Test the Porch Base-Ceiling on the Porch Assembly. Mark and scrape for gluing to the Posts. Glue, tape, and weight the Porch Base-Ceiling to the Porch Assembly. Let the glue dry.



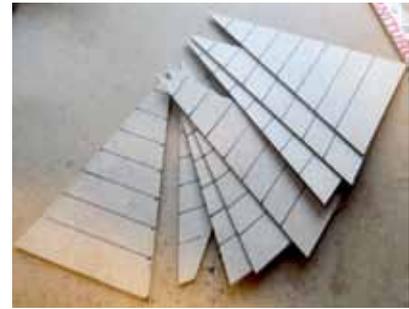
11. Draw Shingle Guidelines on the Porch Roofs. Mark for the first guideline at 1 1/8" from the bottom edge, and the rest of the guidelines spaced 1" apart.

If you will be flashing the drip edge, increase the first guideline measurement by the amount of copper you want to show.





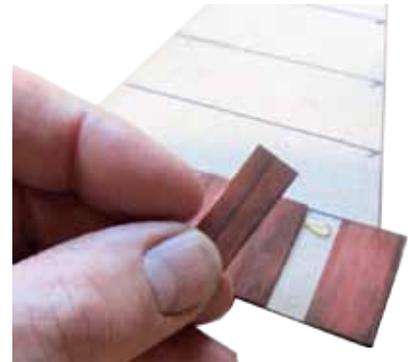
Use another Gazebo Roof to extend the line



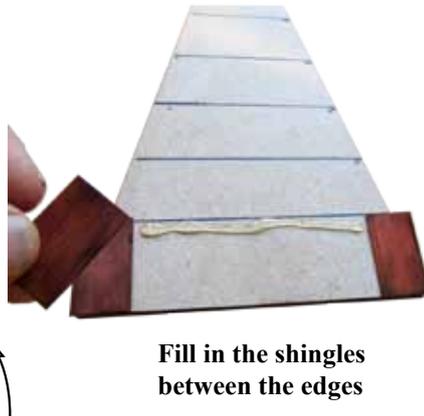
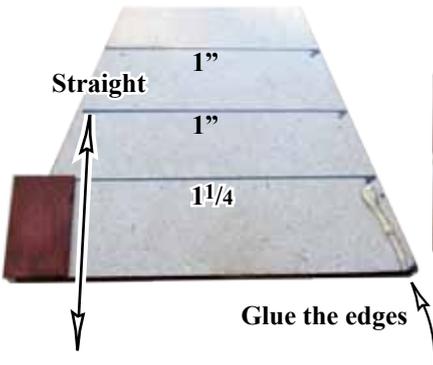
Shingle Glue: it is easiest and fastest to shingle with non-water based glue (not the tacky glue that is recommended for everything else in dollhouse building). I use solvent-based construction adhesives (look for the flammability warnings - that's the stuff to use), fabric glue (like 'Magna-Tac'), or hot-melt glue (the high-temperature version... watch out for burns!)

See www.realgoodtoys.help for more on shingling and shingle glue

12. Gazebo Roofs. Mark Shingle Guidelines with the first guideline at 1 1/4" and the rest spaced 1". Shingle the Gazebo Roofs following the guidelines. General shingling directions are to put a line of glue right under the guideline and to dip the top of the shingle into the glue and slide it up to the guideline, and that is what you will do here with the following exception: Start each row with a full shingle on both ends. Glue the outside edges of the shingles with plenty of glue - you will be cutting these shingles following the edge of the roof as a guide and you want the shingle reinforced by the glue so it won't splinter.



Cut the last shingle to fit



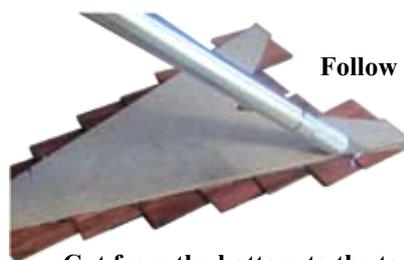
Fill in the shingles between the edges

Fill in the shingles between the edge shingles, following the guidelines. Cut the last shingle to fit. Shingle the whole roof with each row started with two shingles on the edges. Shingle all the Gazebo Roofs like this.

Do not pre-shingle the other roofs

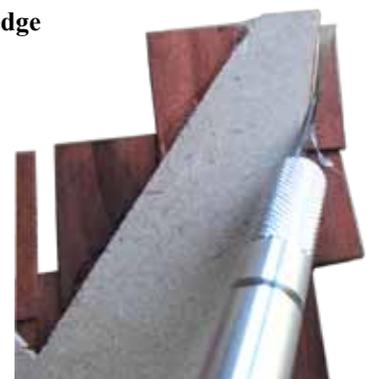


Shingle the Gazebo Roofs



Follow the roof-edge

Cut from the bottom to the top!!!



Follow the bevel-angle

Turn the Gazebo (and the Corner) Roofs over and cut the shingles following the edge of the roof. **Cut from the bottom to the top** (except for inside the Corner Roof's cutout) using a very sharp craft knife (like X-Acto). Make *many* gentle cuts. Lay the knife along the bevel angle of the roof's edge so the shingles are beveled at the same angle as the roof.

Wiring? Now is the easiest time to run the wire. Connect porch ceiling lights to the 2nd floor baserun. www.realgoodtoys.help

13a. Tape together the Gazebo and Corner Roofs, lined up at the bases. Use lots of tape - taping to the outside of shingles doesn't hold well but lots of tape will hold them well enough.

b. Wrap them into a cone and test them on the Porch Ceiling. Some amount of filing/sanding on the shingles at the cutout is necessary so the Gazebo Roof's edges do not stick out past the Porch Ceiling's edges. 100 grit sandpaper wrapped around a stick is a good tool for shaping the shingles on the edges. Check the fit and sand as necessary.



Sandpaper on a stick



Lots of tape



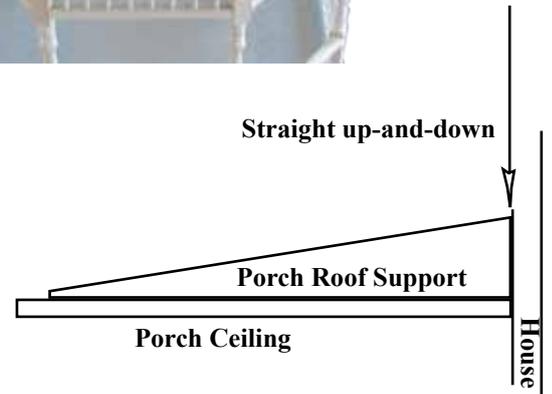
**Glue in the joints
Glue on the bottom**



c. Glue and tape the Gazebo Roof to the Porch and house, lined up around the edges (more shaping will be done on the edges after the glue is dry).

14a. Glue the Porch Roof Supports to the Porch and house, with the back edges straight up-and-down. Let the glue dry.

b. Glue, tape, and weight the Porch Roofs to the house, Porch Roof Supports, and to the front edge of the Porch Ceiling. Let the glue dry.



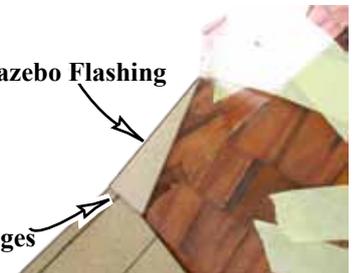
Porch Roof



Porch Roof



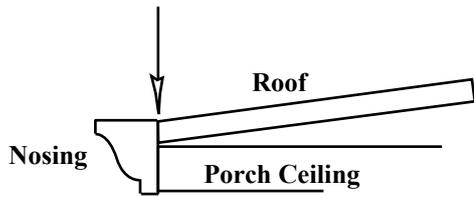
Gazebo Flashing



c. Test the Gazebo Flashing at the corners of the Gazebo roof and sand the underneath edge for a good fit. Glue them in place; let the glue dry.

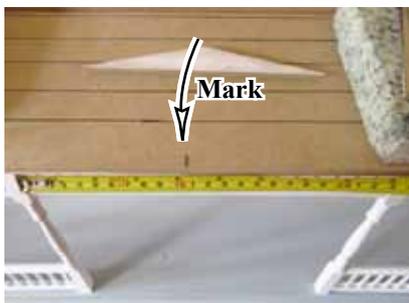
Sand underneath the edges

14d. Sand the edge of the Roof to line up with the edge of the Porch Ceiling so the Nosing will have a continuous surface for gluing.



100 grit sandpaper on a stick

14e. Find and mark the center of the entrance ($4\frac{1}{8}$ + from each post). Glue the Cricket Triangle to the Porch Roof centered on the mark and set back $\frac{1}{4}$ ".



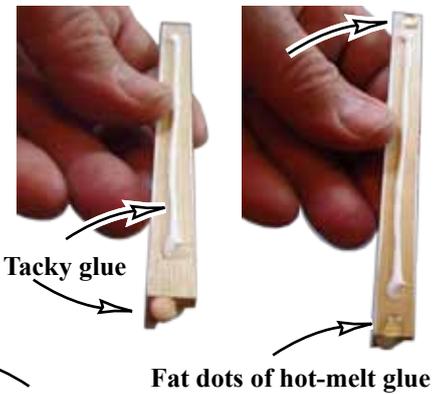
Cricket Triangle

Cricket Roofs Lined up in back



14f. Glue and tape the Cricket Roofs to the Cricket Triangle and Porch Roof, lined up in back and overhanging evenly in front. Let the glue dry.

15. Glue and tape the Nosing to the edges of the Porch Ceiling and Roofs, lined up with the top of the Porch Roof. A handy addition to tape is to use dots of hot-melt glue along with a line of Tacky Glue... the hot-melt glue gives it quick hold while the Tacky Glue sets.



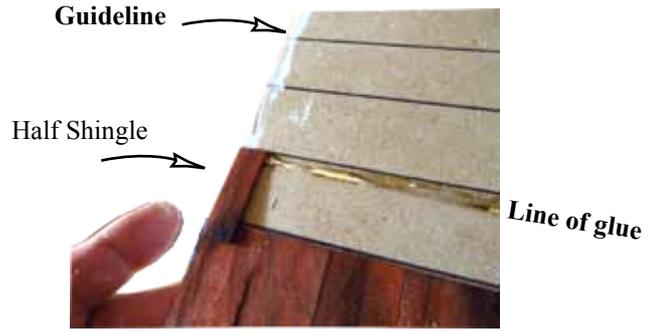
Touch up the painting wherever it is needed... I painted the roof in front of the Cricket Triangle, the Porch Roof Supports on both ends, and underneath the Porch Roof on both ends.

There is more Shingling info at www.realgoodtoys.help

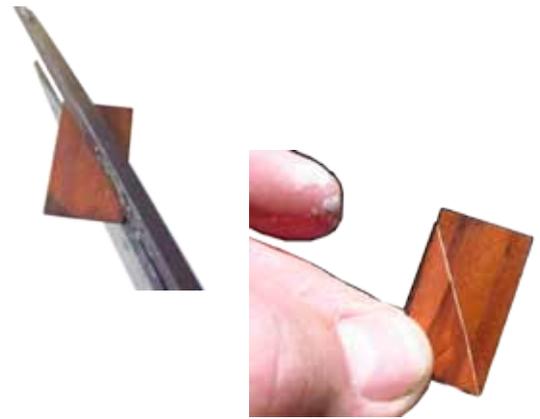
15. Shingling

Dye or stain shingles for your porch several days ahead of time so they will be fully dry when the time comes to glue them on.

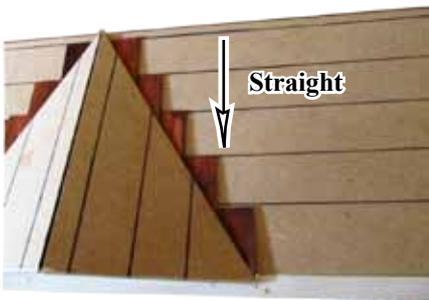
Glue: A good choice is a thick, solvent-based panel adhesive available in caulking gun tubes at building supply stores. Look for the "Flammable" warning to know it is a solvent based adhesive, and follow the manufacturer's warnings. If there are no warnings or if it says "water clean up", then it is an acrylic based adhesive and will curl the shingles. Other glues may work with specific considerations... Visit www.realgoodtoys.help for more on shingle glues.



a. Apply a thin line of adhesive just below the lowest guideline half way across one roof. Press the top edge of a Shingle into the line of glue, smearing the excess upward as you slide the shingle up to the guideline. Hold the first Shingle steady and dip another Shingle into the adhesive, tight to the first. Slide it upward as you press it down. Hold the next Shingle - dip, slide, and press in another... etc. Repeat until you are all the way across the roof, cutting the last Shingle to fit. Keep the glue and the glue squeezings at the top of the shingle so the next course will cover the excess.



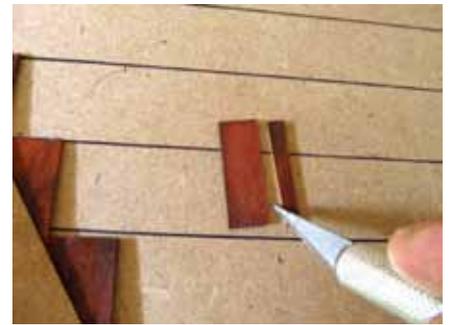
b. Valley Shingles. Find the angle that matches the valley and leaves the other edge straight up-and-down the roof. Cut 10 shingles this angle and glue them in place from bottom to top.



Valley Shingles

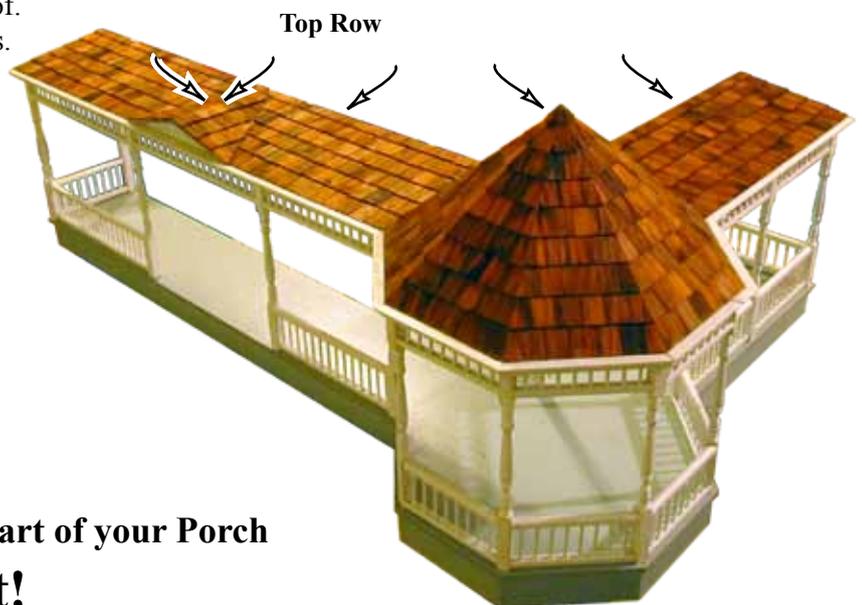


Cut the last shingle to fit



c. Continue up the roof one row at a time. Start the next row with a half Shingle so that the seam between Shingles weaves back and forth as you go up the roof. Line up the top edge of each row with the guidelines.

d. Cut Shingles for the top row so that the next lower row has a 1" reveal.



**You are done with the construction part of your Porch
Enjoy the Rest!**