

A Closer Look

Wood Science

YANR-7d

ALABAMA COOPERATIVE EXTENSION SYSTEM, ALABAMA A&M AND AUBURN UNIVERSITIES

4-H Woodworking Exhibit Plan

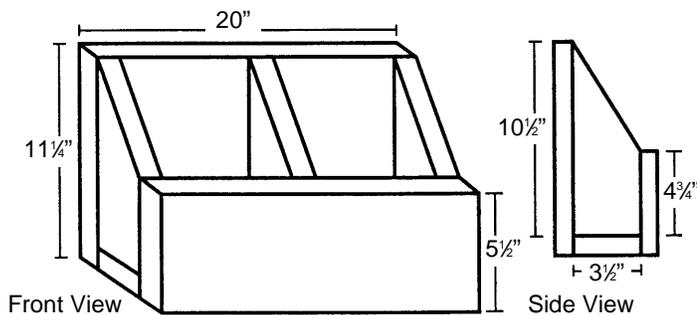
A Magazine Rack

Materials Needed

One 20" length of 1" x 12" board for the back
 One 20" length of 1" x 6" board for the front
 One 20" length of 1" x 4" board for the bottom
 Three 12-inch pieces of 1" x 4" board for the sides and center
 No. 6 finishing nails
 Sandpaper (80 grit and 210 grit)
 Stain and varnish
 (Note: all pieces should be cut from softwood lumber, not plywood)

Tools Needed

Pencil Ruler Hammer
 Square Handsaw Small paintbrush



How to Make the Magazine Rack

- Using the ruler and square, cut the 1" x 12" board for the back to exactly 20" long. (Note: Buy a 1" x 12" board; it actually measures about 3/4" thick and 11 1/4" wide.)
- Cut the 1" x 6" board for the front to exactly 20" long. (Note: Buy a 1" x 6" board; it actually measures about 3/4" thick x 5 1/2" wide.)
- Cut the 1" x 4" board for the bottom to exactly 20". (Note: Buy a 1" x 4" board; it actually measures about 3/4" thick x 3 1/2" wide.)
- To make the sides and center pieces, first cut three pieces of 1" x 4" board to 12". Next, make a mark on one edge of the board at 10 1/2" and mark the opposite side of the board at 4 3/4". Then use a straight edge to mark a diagonal line between these two marks.
- Repeat Step 4 for the other two 1" x 4" boards and then cut along your marks. The side and center pieces should now be 10 1/2" x 3 1/2" x 4 3/4". (See side view diagram.)
- Assemble the bottom piece (1" x 4" x 20") to the back piece (1" x 12" x 20"), using No. 6 finishing nails.
- Assemble the front piece (1" x 6" x 20") to the bottom piece (1" x 4" x 20"), using No. 6 finishing nails.
- Assemble the two side pieces and the center piece (1" x 4 3/4" x 3 1/2" x 10 1/2") between the front and back pieces and flush with the bottom piece. Place the center piece halfway from either side. Nail together using No. 6 finishing nails.
- To finish your magazine rack, sand all surfaces first with 80 grit sandpaper and then smooth surfaces with 210 grit sandpaper. (Note: You may wish to sand the pieces some before you begin assembly.)
- Select a stain and apply it with a brush or a rag. Apply an appropriate varnish to finish the magazine rack (no paint).



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