

Homemade Puzzles

Brown Slidey T-Plans

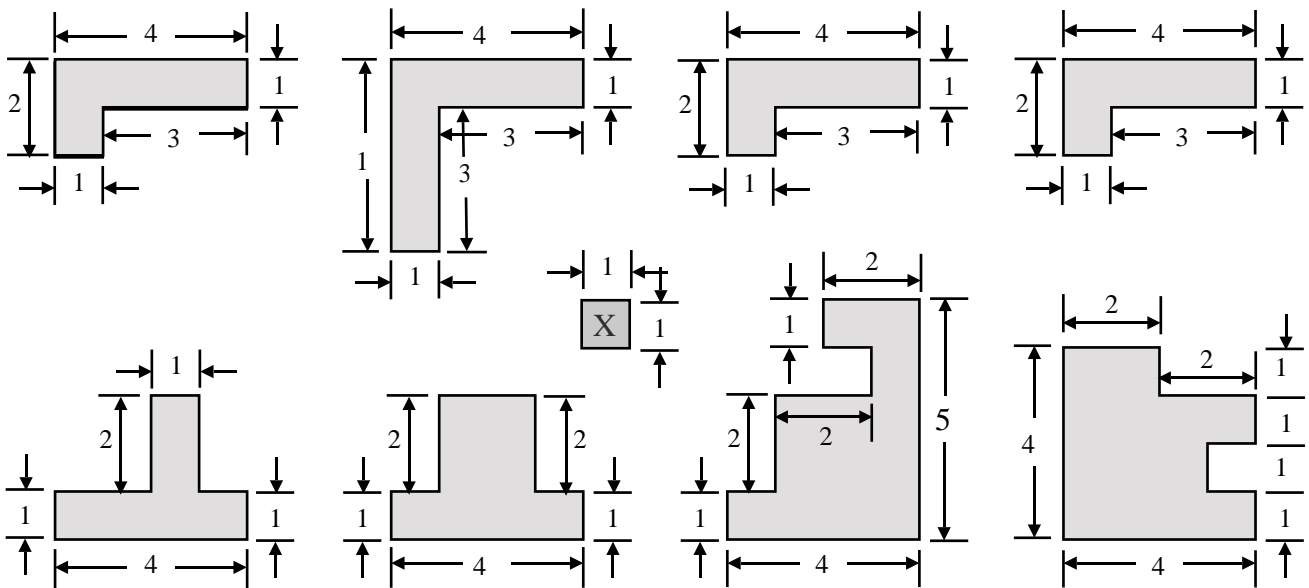
It would be best to make this puzzle out of wood that is at least 1/4" (6 mm) thick, otherwise, it could be too small to handle.

The four sliding blocks are the important part; the box is built around them, so start with them.

T represents the thickness of the wood.



Cut these shapes:

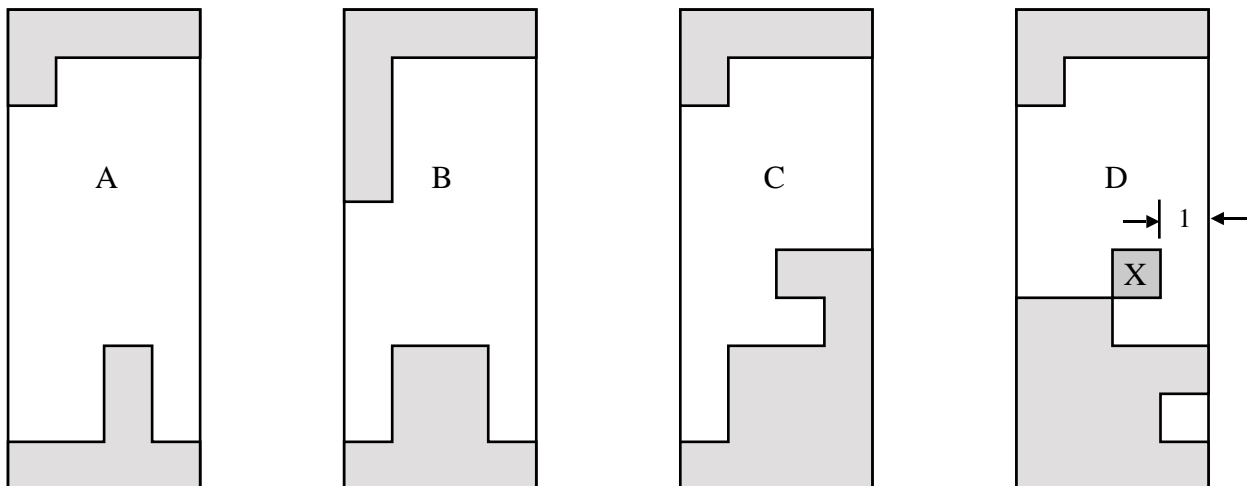


The piece marked "X" can be replaced by a 1/4" headed screw.

Cut 12 pieces at 4T by 10T.

Glue three pieces together to form the basic block. Repeat for the other three blocks.

Glue the above shapes onto the blocks as shown below.

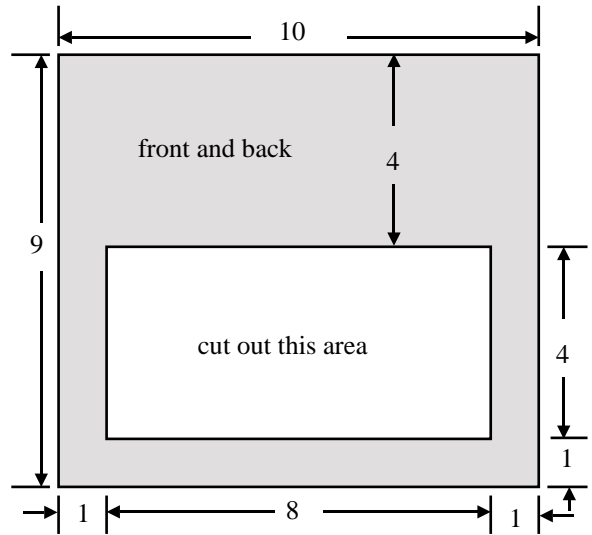


What is a T-Plan? See page 4

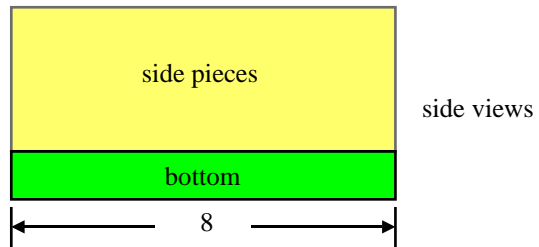
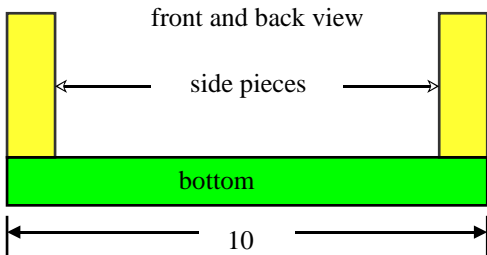
The Box

Cut these pieces:
 two at 8 by 10: top and bottom.
 two at 10 by 9: front and back.
 two at 8 by 3: left and right.

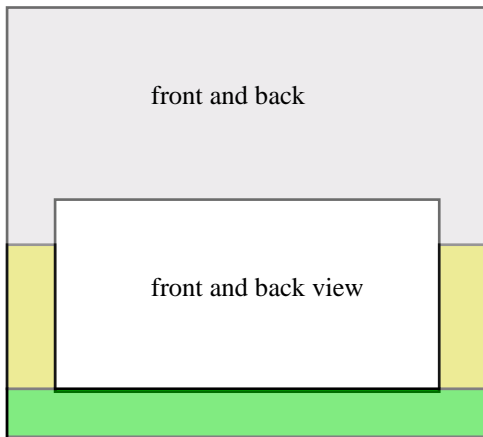
Cut these holes in the front and back pieces:



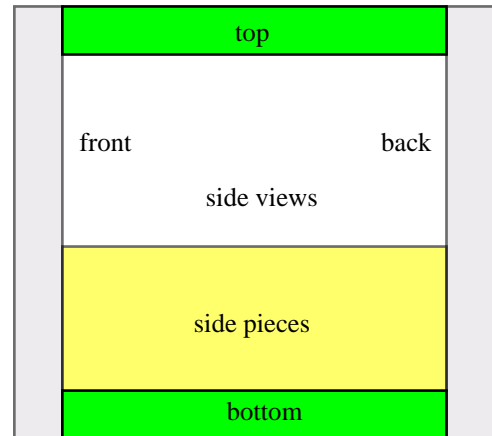
Glue the two side pieces onto the bottom:



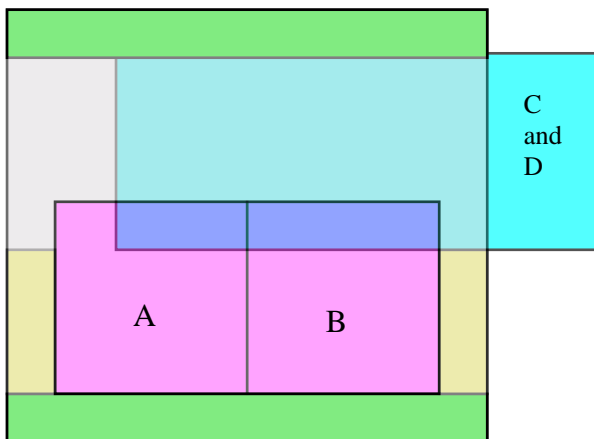
Glue the front and back onto the ends of the side and bottom pieces.



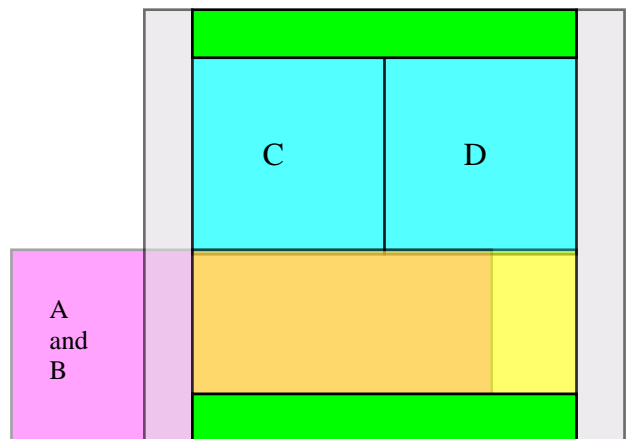
Glue the top between the front and back pieces.



Blocks A and B fit in the bottom holes, from front to back, with the solid layers facing down.
 Blocks C and D should be flipped upside down so that the solid layers are on top, and go into the top holes, from side to side.



front view

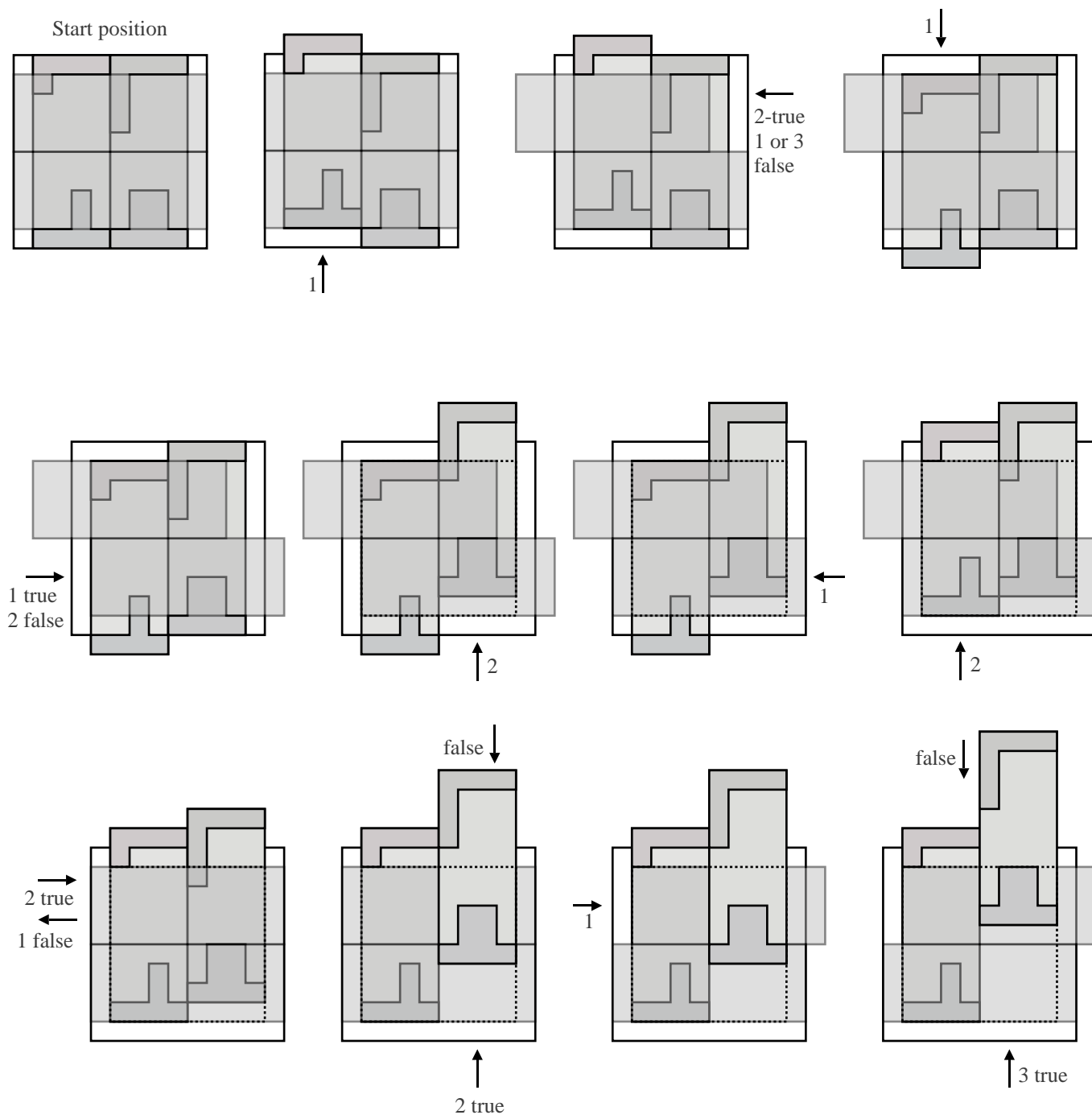


right view

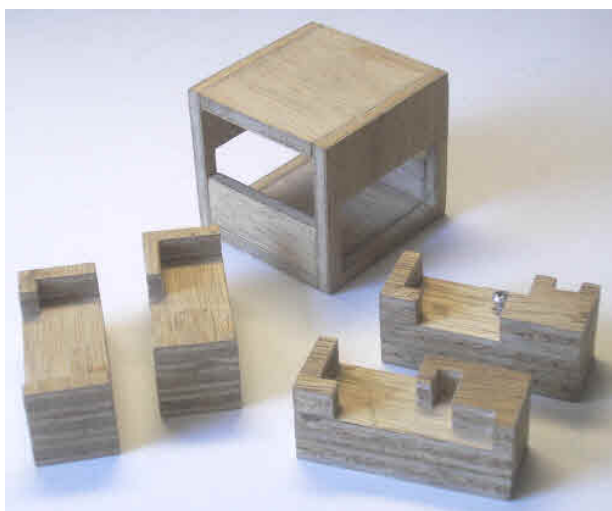
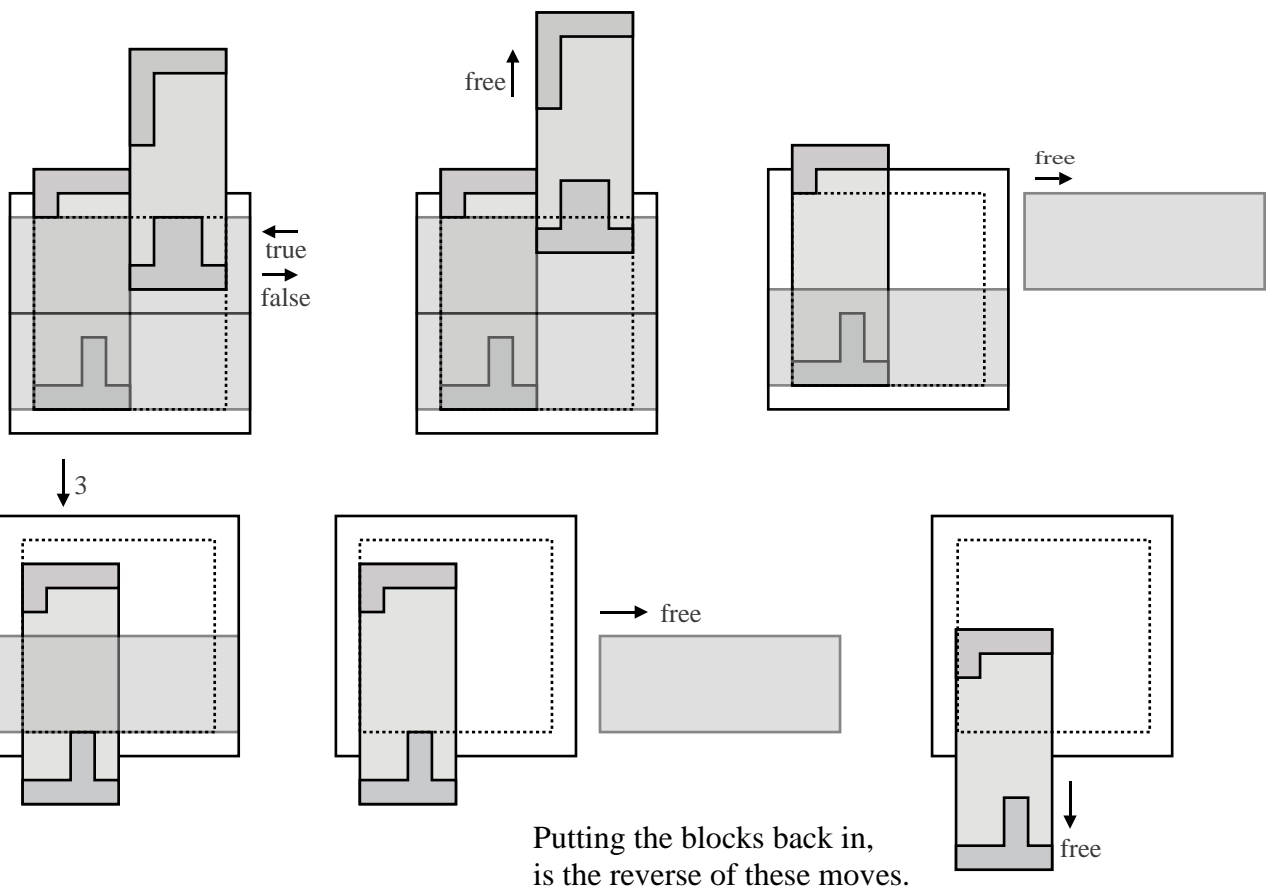
There is only one block that will initially move: find this block, and hold the box so that this block is on the bottom, on the left, so that the first move is backwards.

Every move made is either 1/4", 1/2", or 3/4", shown here as 1, 2 or 3 spaces. Note that there are a number of false moves, in that a block can move either the wrong way, or too far. These are shown below.

Looking down on top of the box, the blocks that move up and down are the lower blocks. The blocks that move side to side are the upper blocks. Follow these moves:



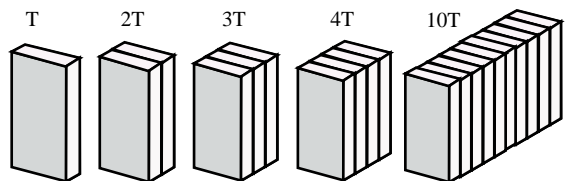
Solution



Enjoy this puzzle!

Make some T gauges

Cut twenty pieces of your wood, of thickness T, at about 1" x 1/2".
 Glue ten together, then four, then three, then two.
 These five gauges will give you any size from T to 20T.
 Measure and mark the wood with these T-gauges, **not with a ruler.**



What is a T-Plan?

A T-Plan is a way of showing the dimensions of the parts, which uses the thickness of the wood you are using, rather than an absolute measurement. For instance, if you're using wood which is supposed to be 1/8" thick, and you have to cut a piece 1-1/2" long, and that length includes the thickness of two pieces of wood, then it should be 1-1/4" plus 1/4". If your wood was exactly 1/8" thick, then that measurement would be correct. If the wood was slightly thicker, then the 1-1/2" would be short. If we call the wood thickness "T", then the correct length should be 1-1/4" plus 2 times T (or simply 1-1/4"+2T). Then your piece would be correct length, no matter what the thickness of the plywood actually is.

If you find any mistakes in these plans, please let me know, so that I can correct them.

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