

# Homemade Puzzles

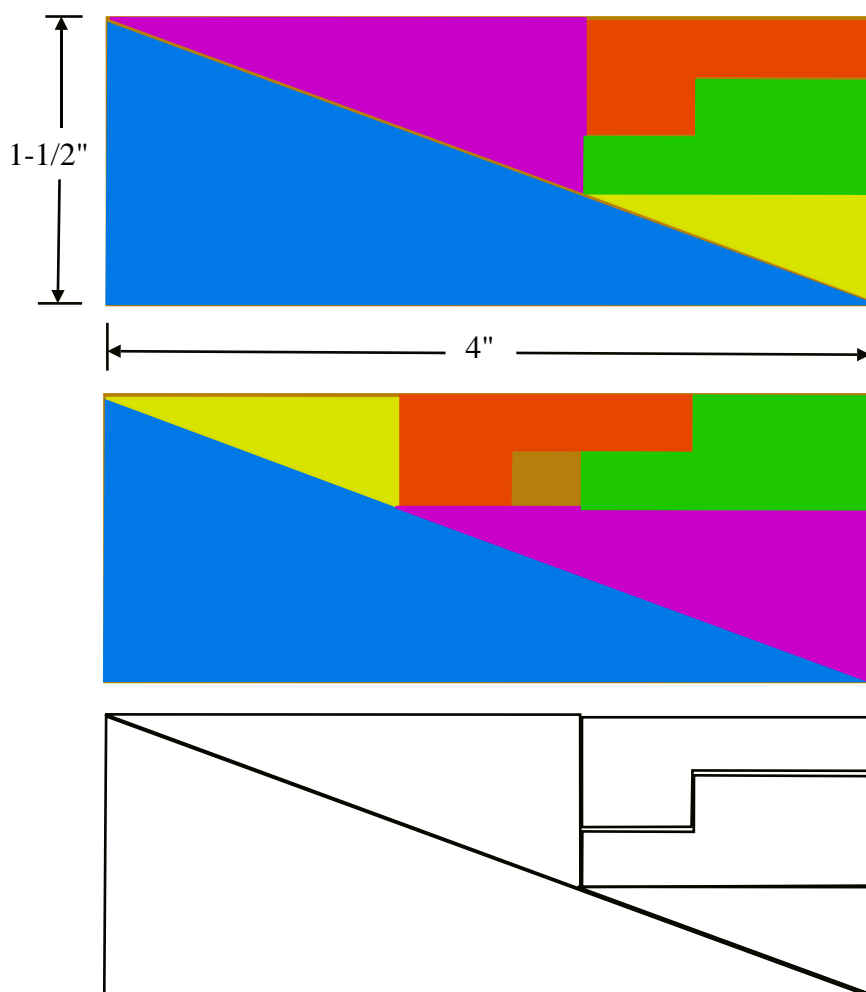
## Weird Puzzle



This is a weird little puzzle that I found on a YouTube video, by Tomlan. Five pieces of wood, that fit into a tray. Only four pieces are removed—the big triangular piece is never moved. The four pieces are put back, and suddenly there's a hole! The two images above are stills from the video. Where does the hole come from? When the pieces are put back again, the hole has gone! If you want to see this in action, go to YouTube, and type: "Fascinating wooden puzzle" in the search box.

You can make this puzzle from card or plywood. Cut out the five pieces as shown on the right. Note: you can make this any size you want, but you **MUST** keep the same perspective between the pieces. Don't alter say, the height but not the width, or the width and not the height. The height and width **MUST** be kept to the same ratio as shown here. I've spent *hours* tweaking these pieces on the computer to get them working, just from the two images taken from the YouTube video!

Print this page on card to make a cardboard version. Print onto paper and glue to plywood for a stronger puzzle. After cutting the pieces, make a tray to keep them in. The pieces should fit snugly in the tray when they are arranged in the lower image.



Overall size: 4" x 1.5"

### So how does it work?

In the top image, the hole is concentrated in one area. In the lower image, the space taken by the hole is spread around the edges of the pieces, and isn't noticeable. When the pieces are put into the tray in the lower image, they'll be a little slacker than in the top image.

Thanks, Tom, for permission to use this puzzle.

Enjoy this puzzle!

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Get more plans and solutions at **Homemade Puzzles**.

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## Flatpack Plan

# Homemade Puzzles

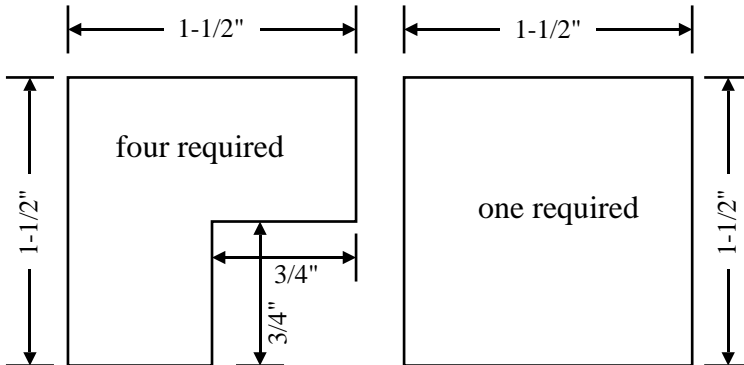
This is not my design-I saw this on the internet and thought it would be quite easy to make. However, solving it is something else...

Four "L" shaped pieces and the a square piece fit inside a frame. The square piece starts off outside the L pieces, and the object of the puzzle is to get the square piece inside the hole formed by the other pieces.

You are not allowed to take the pieces out, only slide them around.



The five pieces are made from 3/16" plywood.



Cut all these pieces just a tiny bit less than 1-1/2", so that when the four L pieces are together, they form a square which is just under 3".

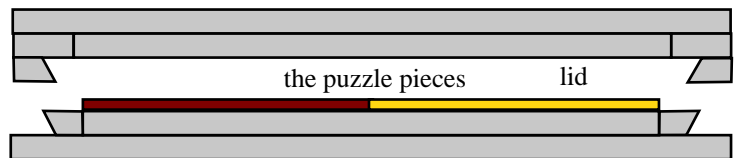
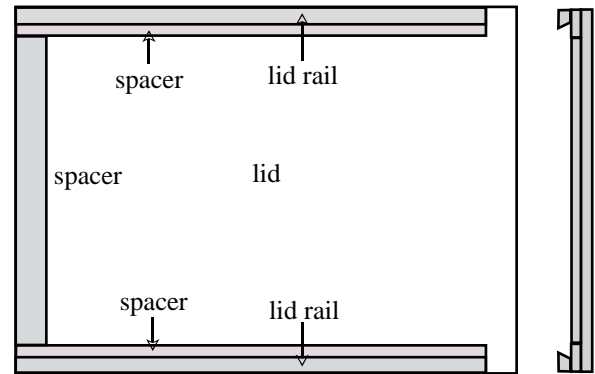
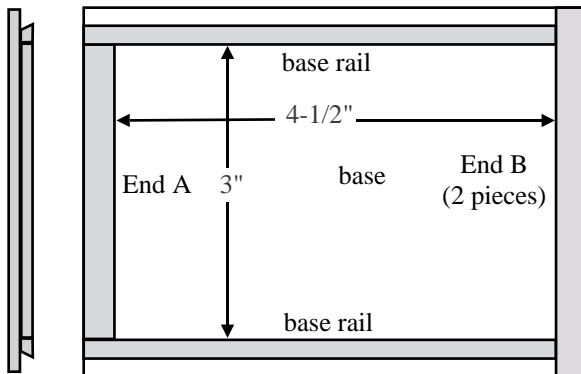
A case was made from 1/8" plywood, with a sliding lid, to hold all the pieces.

Make an angled cut down the length of the sliding rails, in the middle. The angle should be about 75°. With a scrollsaw, tilt the table to 15°.



Cut two at 5-1/8" x 3-3/4": lid and base.  
Cut one at 3" x 5/16": frame end A.  
Cut two at 3-3/4" x 5/16": frame end B.

Cut two at 4-13/16" x 5/16": lid spacers.  
Cut one at 3-1/8" x 5/16": lid spacer.  
Cut two at 4-13/16" x 3/8": sliding rails



Full size view of the case end.

base

Two of the L pieces were stained dark brown: the other two were left their natural colour. The square was divided into four, and two of the quarters stained dark brown. The case was varnished.

Enjoy your puzzle!

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