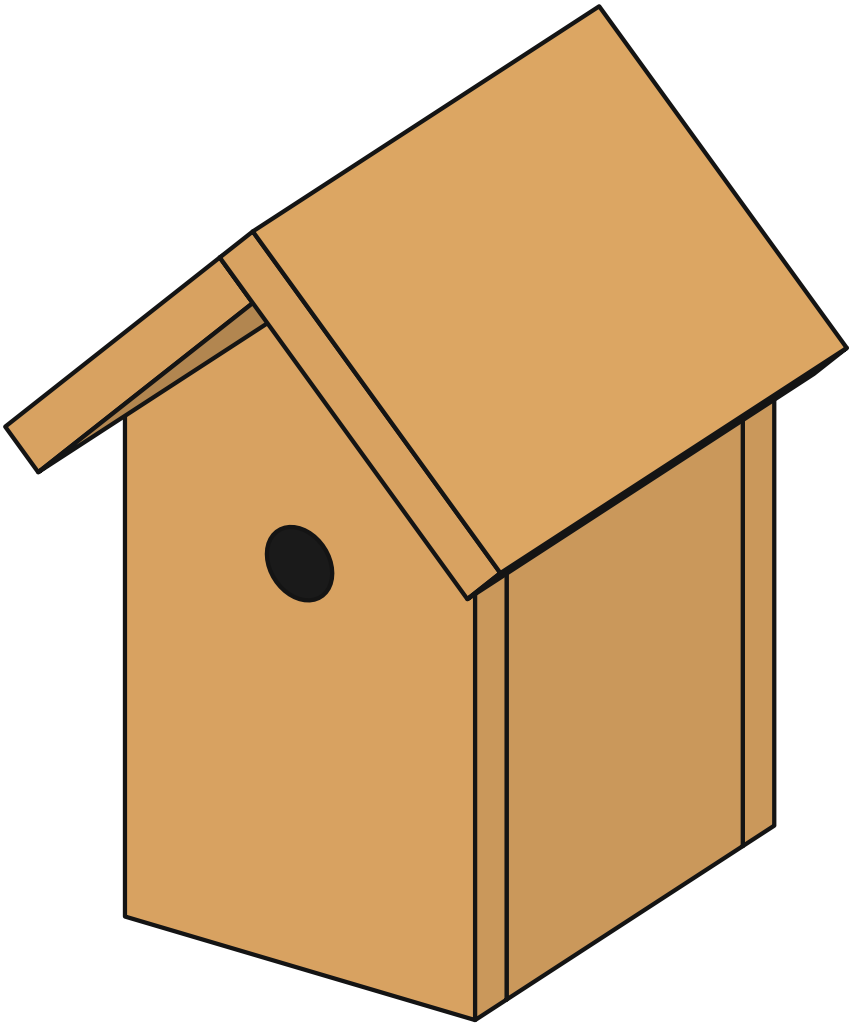
# Make a Bird Box

A home for small garden birds. You make it from **1 board** of wood.



**1** board **7** parts **13** steps

Take your time. Do one step at a time. Ask your helper when you see the blue hand.

# How to use this plan

1

## Read one step.

Look at the picture. Read the words.

2

## Do that step.

Only that step. Then stop.



## Tick the box.

When the step is done, tick the Done box.

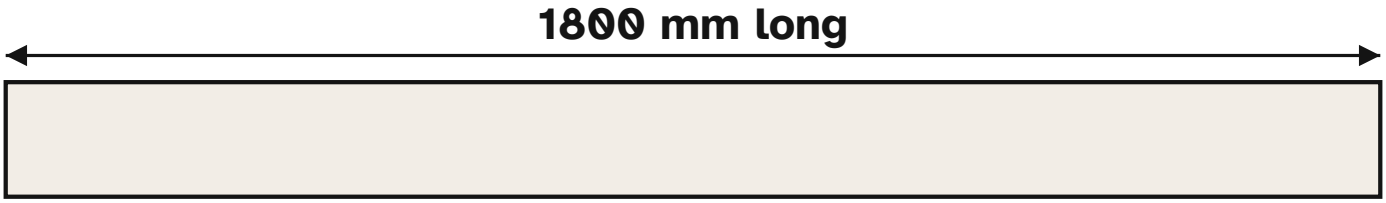


## Ask for help.

The blue hand means: ask your helper.

**mm** means millimetres. All sizes in this plan are in mm. Use the mm side of your tape measure.

# What you need: wood




**150 mm wide · 20 mm thick**

1. **1 board** of wood. Smooth (planed) wood is easiest.
2. It must be **1800 mm** long, **150 mm** wide and **20 mm** thick.
3. **20 screws** for outside use, **40 mm** long.
4. **1 metal bracket** to hang the box, with its screws.
5. **Sandpaper.**

Check the board before you start. Measure it. Look for big cracks. Ask for a new board if it is cracked.

# What you need: tools

- [ ] Pencil
- [ ] Tape measure
- [ ] Square (for straight lines)
- [ ] Saw
- [ ] Clamps
- [ ] Drill
- [ ] Small drill bit (3 mm)
- [ ] Large hole bit (28 mm)
- [ ] Screwdriver
- [ ] Sandpaper
- [ ] Safety glasses
- [ ] Dust mask

Tick each tool when you have it on your bench.

**Ask your helper**
Your helper may use a power saw for some cuts.

# Stay safe

1. Wear your **safety glasses** when you cut, drill and sand.
2. Wear a **dust mask** when you sand.
3. **Clamp** the wood to the bench before you cut or drill.
4. Keep your **fingers away** from the saw blade and the drill bit.
5. Keep the bench **tidy**. Put tools back when you finish with them.
6. If you feel unsure, **stop**. Ask your helper.

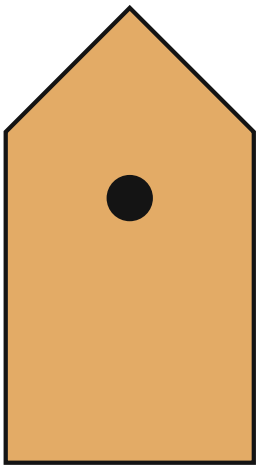


**Ask your helper**

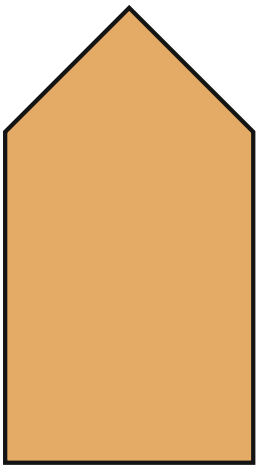
Your helper shows you how to use each tool.

# The 7 parts

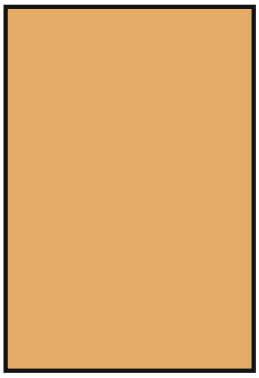
You will cut these parts from your board.



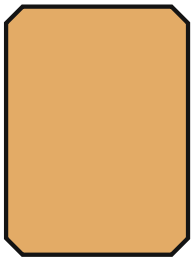
**Front**
275 × 150



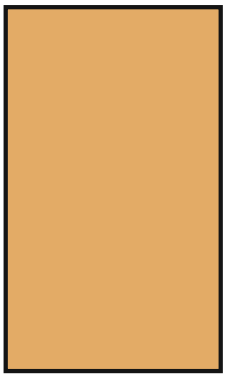
**Back**
275 × 150



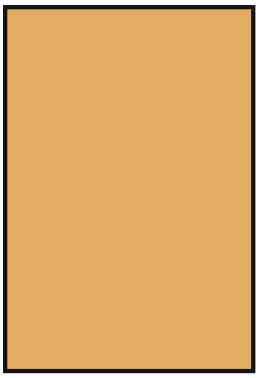
**Side ×2**
220 × 150



**Floor**
150 × 110



**Short roof**
220 × 130



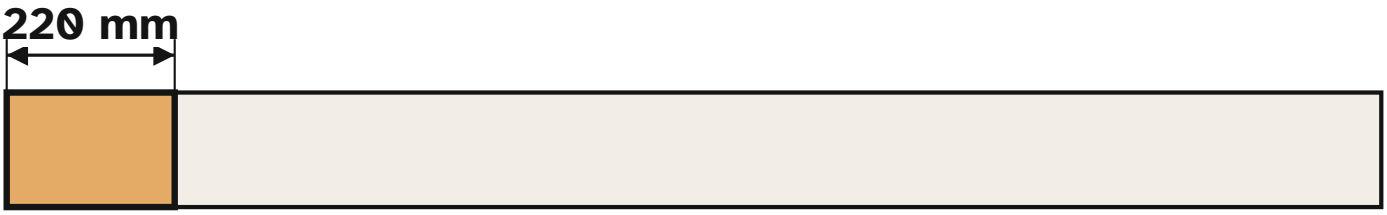
**Long roof**
220 × 150

All parts are **20 mm** thick.

Write the **name** on each part in pencil after you cut it.

# Cut the long roof

Done ☐

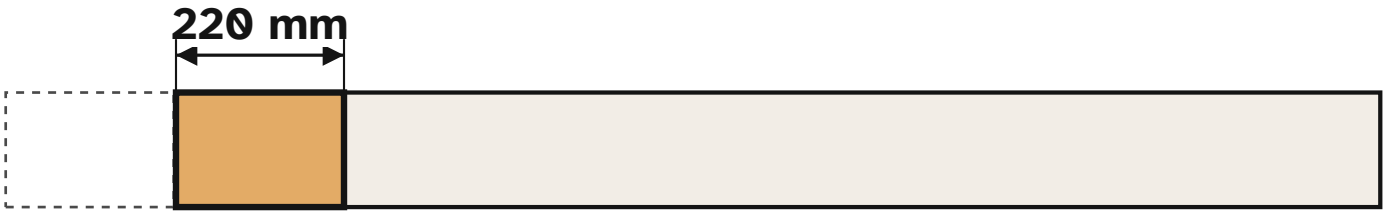


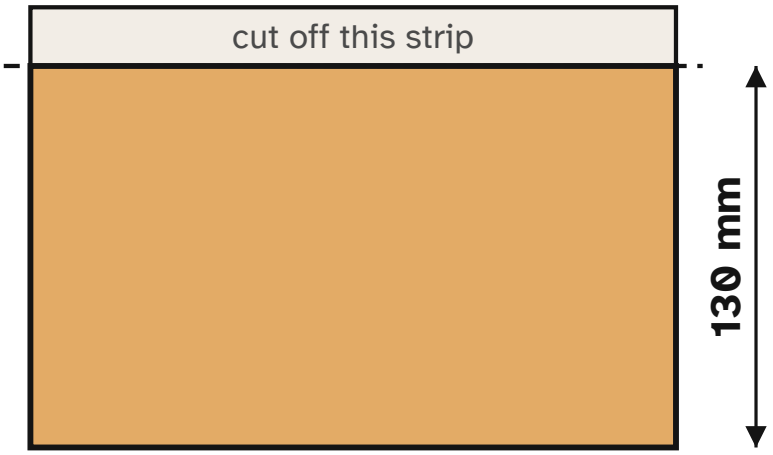

Cut this part from the end of your board.

1. Measure **220 mm** from the end of the board.
2. Draw a line across with the square.
3. Clamp the board. Cut on the line.
4. Write **Long roof** on this part.

# Cut the short roof

Done ☐



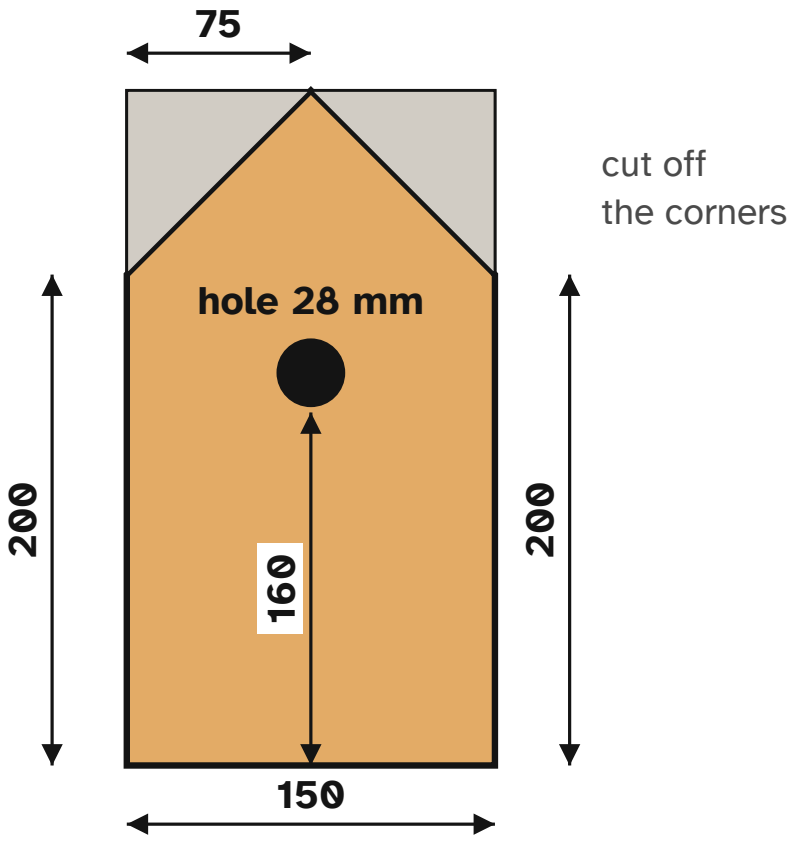

1. Measure **220 mm**. Draw a line. Cut it off.
2. On this part, measure **130 mm** from one long edge. Draw a line along the part.
3. Cut along the line. Keep the **130 mm** part.
4. Write **Short roof** on this part.

**Ask your helper**

This is a long cut. Ask for help to clamp and cut it.

# Cut the front

Done ☐

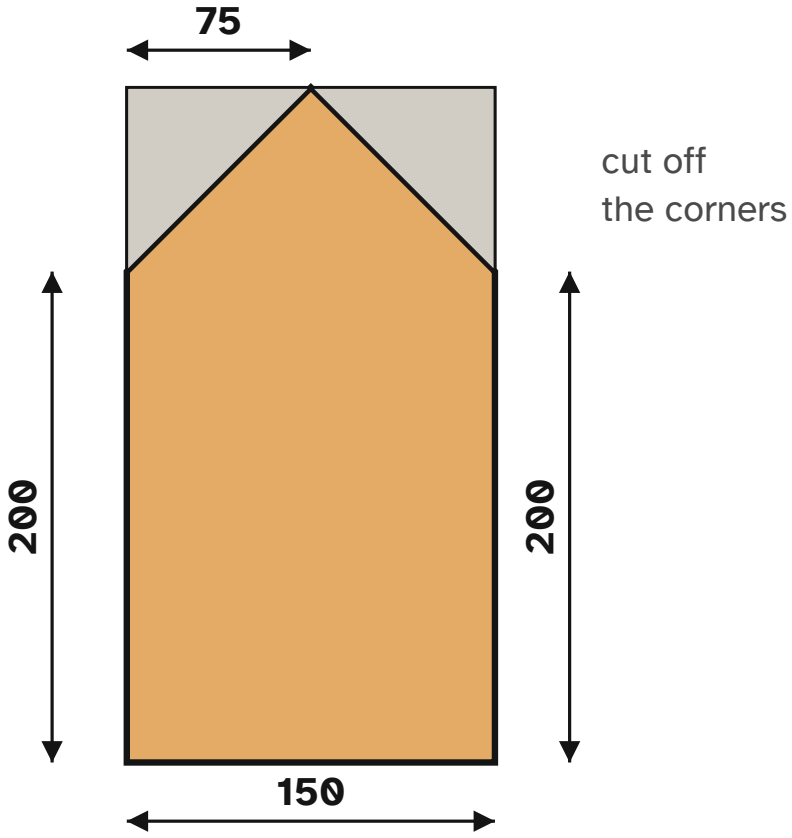



1. Measure **275 mm**. Draw a line. Cut it off.
2. Mark **200 mm** up both long sides. Mark the **middle** of the top end (**75 mm**).
3. Join the marks with 2 lines. Cut on the lines.
4. Mark the hole: in the middle, **160 mm** up. Drill it with the **28 mm** bit.

**Ask your helper**
Drilling the big hole needs a helper.

# Cut the back

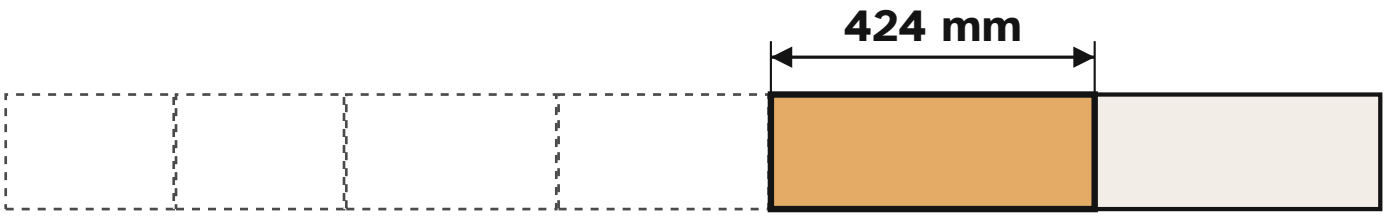
Done ☐



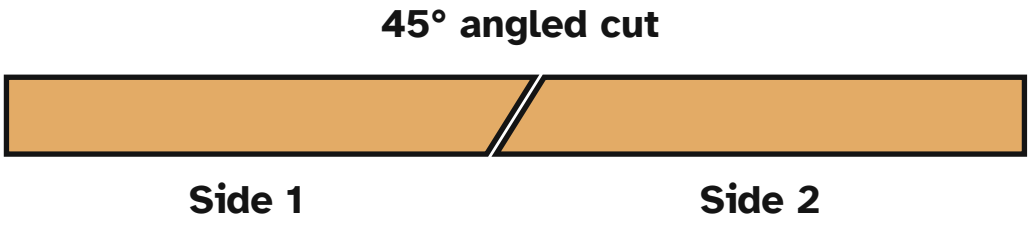

1. Do the same as the front: **275 mm** long, **200 mm** sides, a point in the middle.
2. The back has **no hole**.
3. Write **Back** on this part.

# Cut the 2 sides

Done ☐




Looking at the edge of the wood:

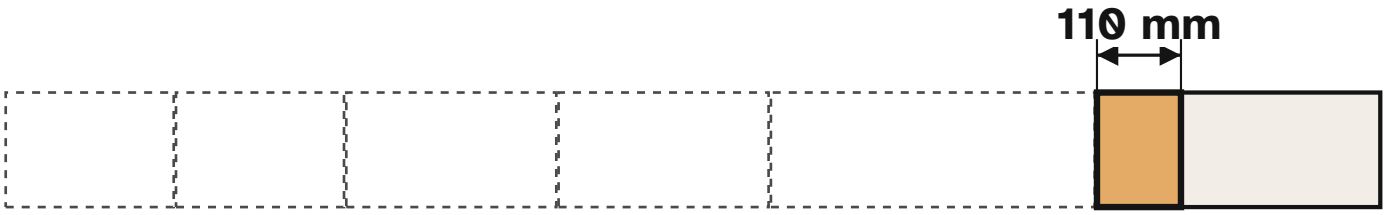


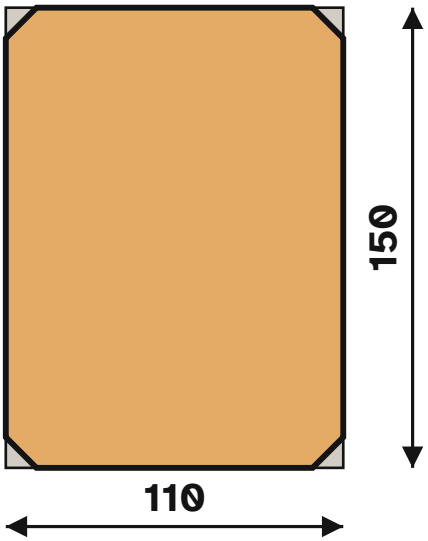

1. Measure **424 mm**. Draw a line. Cut it off.
2. Your helper sets the saw to a **45°** angle.
3. Cut this part in the middle with the angled cut. You get **2 sides**.
4. Each side is **220 mm** on one face and **200 mm** on the other.

**Ask your helper**
The 45° cut needs a helper to set the saw.

# Cut the floor

Done ☐



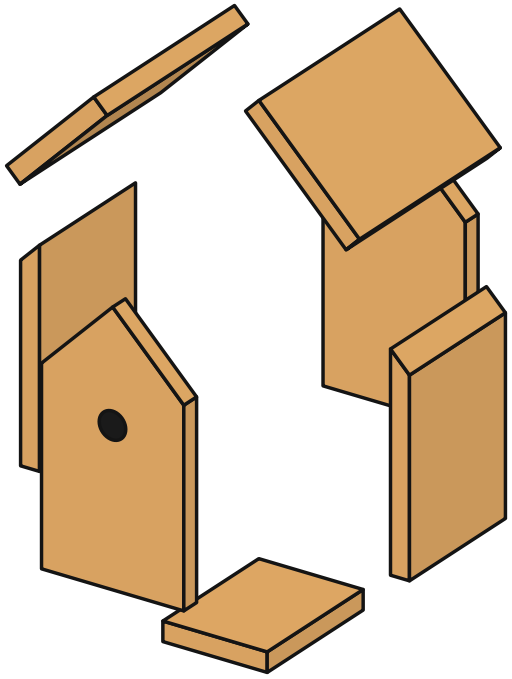




cut off each
**corner: 10 mm**
(lets water out)

1. Measure **110 mm**. Draw a line. Cut it off.
2. Mark **10 mm** from each corner, on both edges. Join the marks.
3. Cut off the **4 small corners**.
4. The wood left over is spare. Keep it.

# Sand all the parts

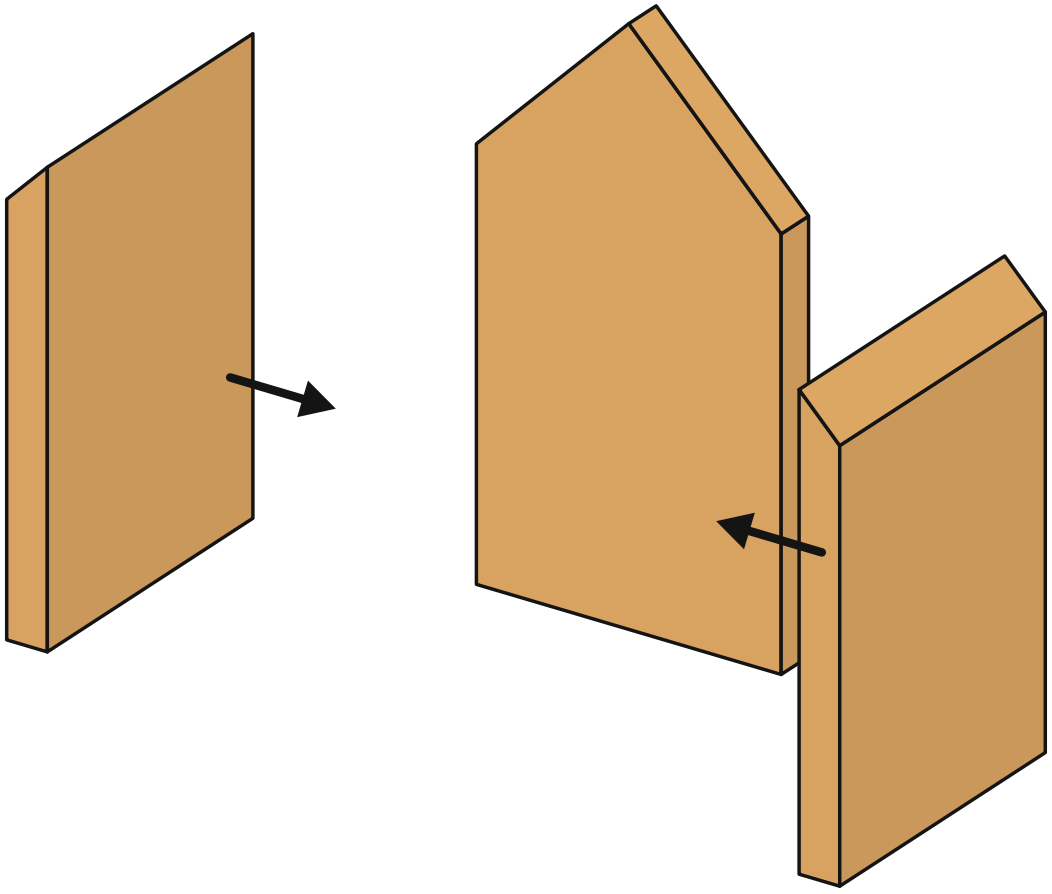
Done ☐



1. Put on your **safety glasses** and **dust mask**.
2. Sand every edge so it is **smooth**. No sharp bits.
3. Lay out all **7 parts**. Check each one has its name.

# Fix the sides to the back

Done ☐

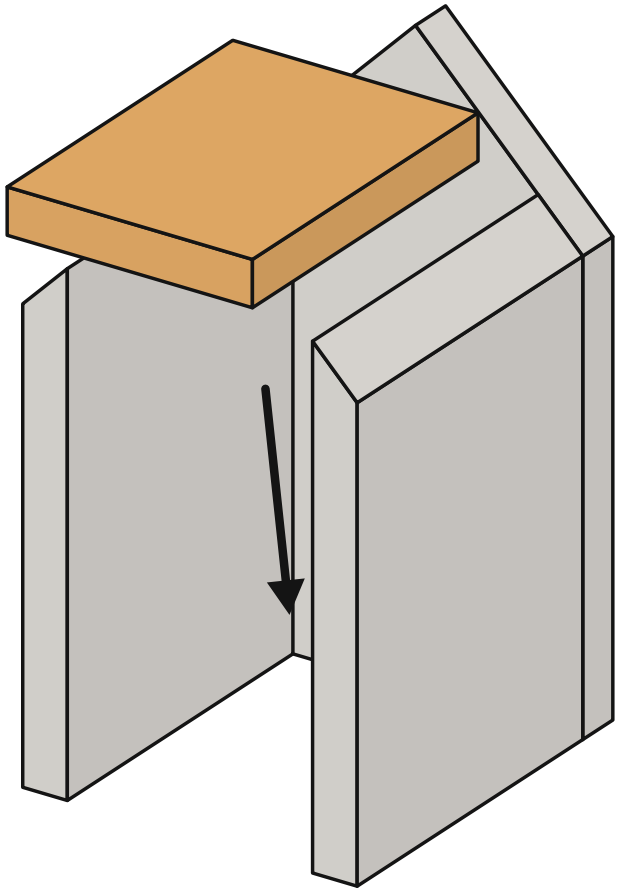


Grey = already fixed. Wood colour = this step.

1. Stand the **back** on the bench, flat side out.
2. Put a **side** on each edge. The longer face goes **inside**.
3. Drill 2 small holes through the back into each side. Then screw.

# Fit the floor

Done ☐

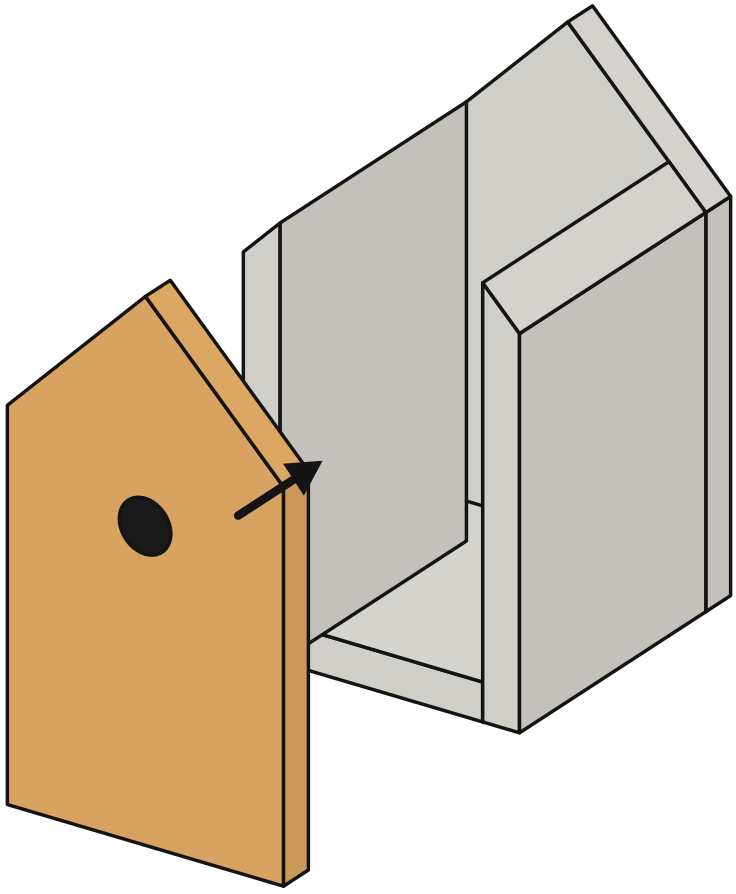


Grey = already fixed. Wood colour = this step.

1. Push the **floor** in between the sides, at the bottom.
2. Line it up with the bottom edges.
3. Drill and screw through each side into the floor: **2 screws** each side.

# Fix the front

Done ☐

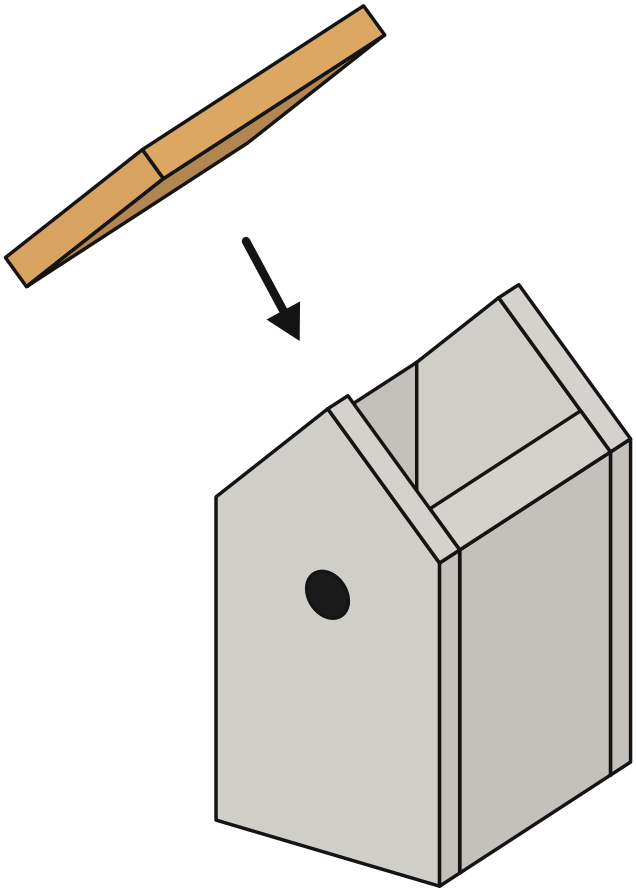


Grey = already fixed. Wood colour = this step.

1. Put the **front** on, with the hole at the top.
2. Line up the edges with the sides.
3. Drill and screw into each side: **2 screws** each side.

# Fix the short roof

Done ☐

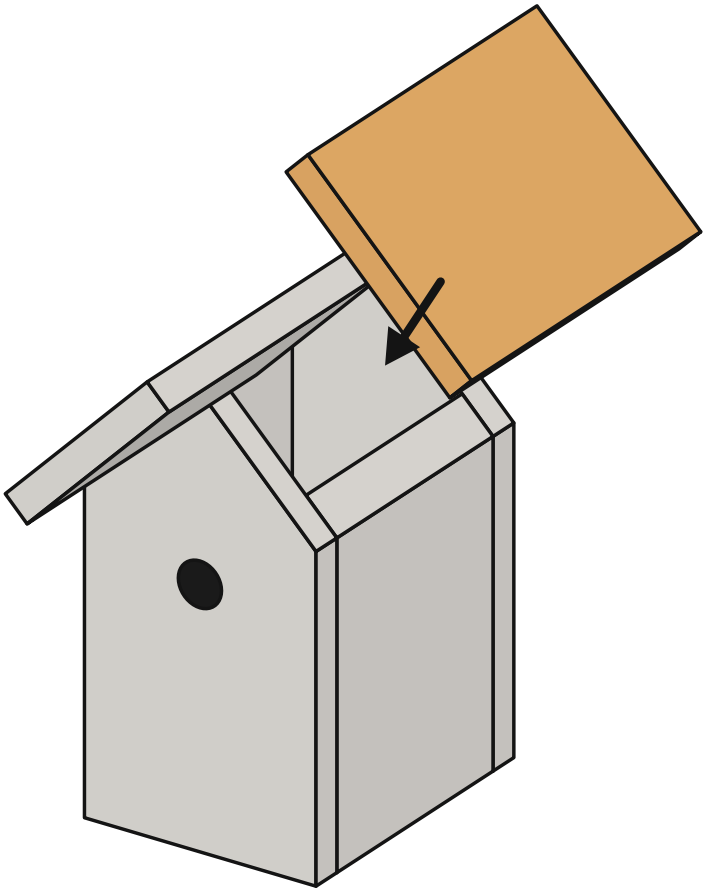


Grey = already fixed. Wood colour = this step.

1. Lay the **short roof** on the left slope.
2. Its top edge sits on the **point** of the front and back.
3. It sticks out **30 mm** at the front. The back is flush.
4. Screw into the front and back: **2 screws** each end.

# Fix the long roof

Done ☐

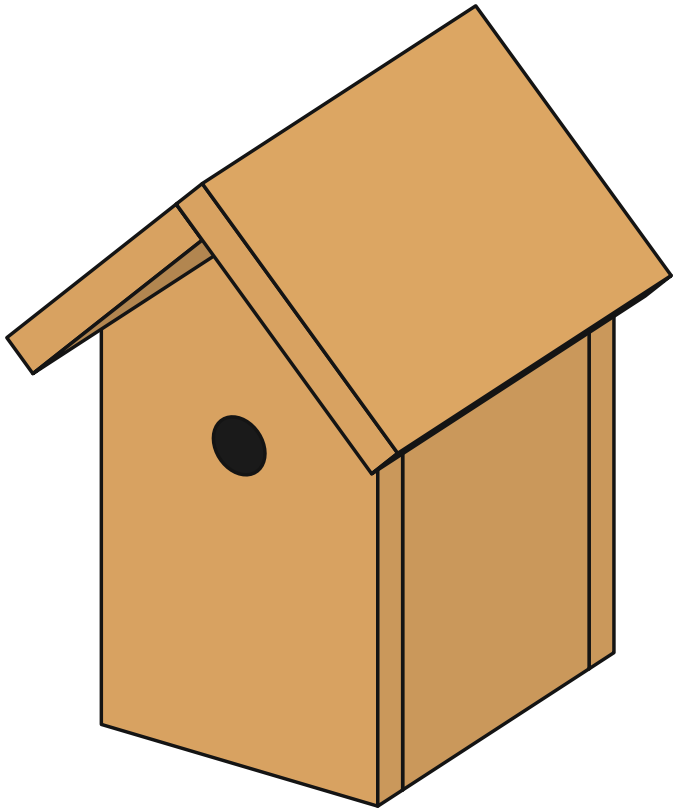


Grey = already fixed. Wood colour = this step.

1. Lay the **long roof** on the right slope.
2. Its top edge goes **over** the short roof. This keeps the rain out.
3. Line it up at the front and back, the same as the short roof.
4. Screw into the front and back: **2 screws** each end.

# Add the bracket

Done ☐

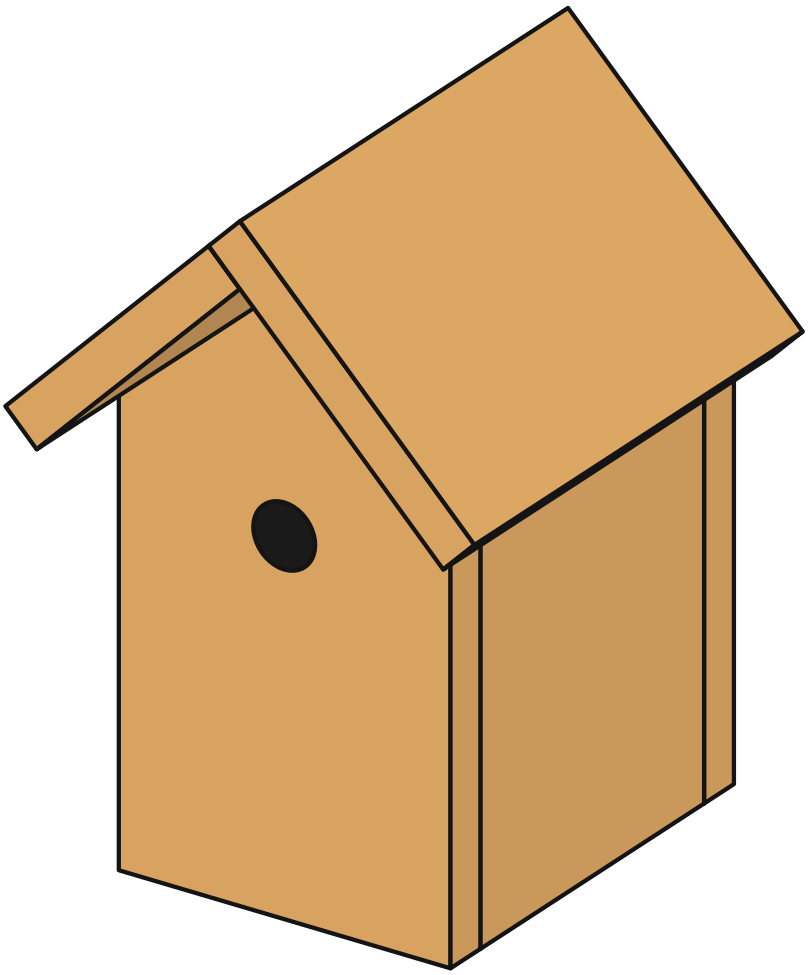


1. Screw the **metal bracket** to the top of the back.
2. Check every screw is tight.
3. Your bird box is ready to hang.

**Ask your helper**
Choose a good place to hang it together.

# Well done!

You made a bird box from **1 board**.



## My bird box

Name _____

Date _____

Where I hung it _____