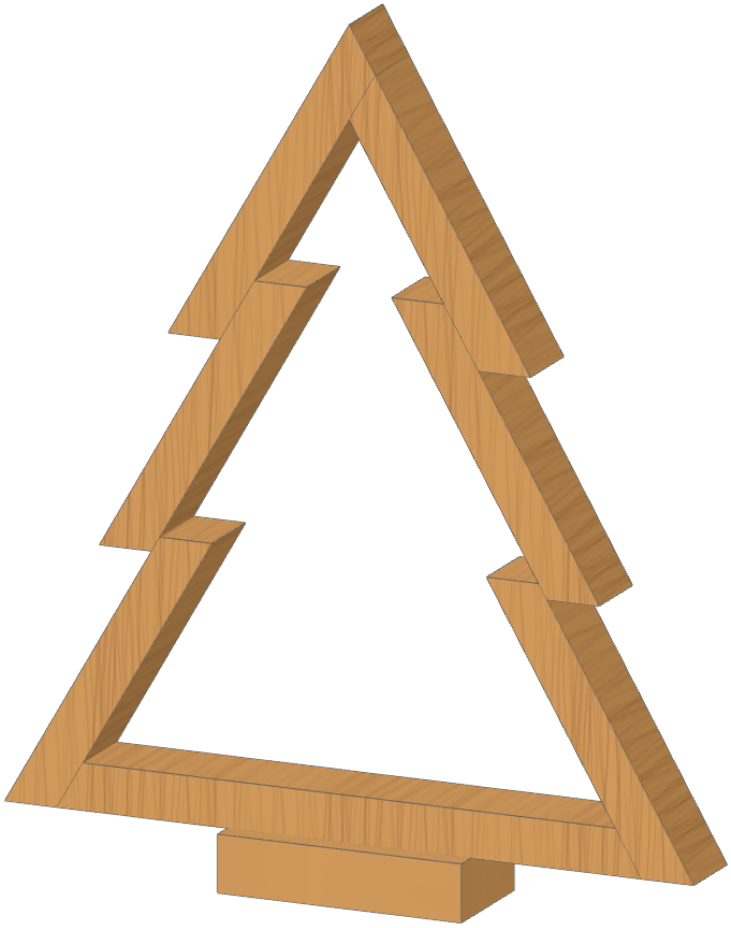
Christmas Tree

An easy-read build plan



1	8	16	13
length of 3x2	parts	screws	steps

Finished size: 580 wide × 701 high (mm), on a 4x2 base

At a glance

HOW HARD

2 · Beginner

Adds angle cuts and drilling. Some steps need a helper.

HOW LONG

1–2 hours

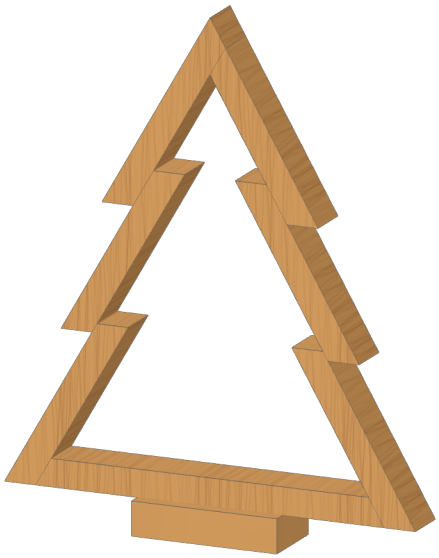
COST

About £6 for one tree.

TOOLS

10 tools. See the next pages.

Prices checked November 2026. A rough guide, not a quote.



How to use this plan

Do **one step** at a time. Each step has its own page.

GET READY Find the tools and mark the wood.

CUT Cut the 3x2 into 7 parts and the 4x2 base.

BUILD Glue and screw the tree together, from the bottom up.

☐ Tick the **Done** box when a step is finished.

Ask your helper

This badge means: **stop and get your helper.** They help with the saw and drilling.

All sizes are in **mm** (millimetres). 10 mm = 1 cm.

Words in this plan

3x2: wood **63 mm** by **38 mm**. The **38 mm** side faces you.

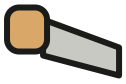
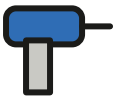
Angle cut: a cut that is not square. Every cut on this tree is **30°**.

Flip: turn the wood over before the next cut, so the ends slope **opposite ways**.

Long point: the longer edge of an angled piece. Measure along it.

Get ready: tools

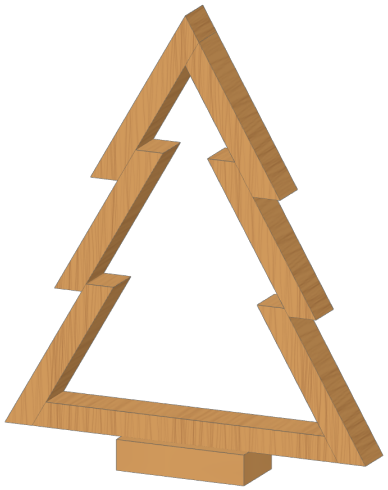
Find each tool. Tick the box.

- ☐  Tape measure. For measuring the wood.
- ☐  Pencil and square. For drawing the angle lines.
- ☐  Mitre saw. Your helper cuts the 30° angles.
- ☐  Hand saw and mitre box. For angle cuts by hand.
- ☐  Clamps. To hold the wood still.
- ☐  Drill. For holes and screws.
- ☐  Sandpaper. To make it smooth.
- ☐  Safety glasses. Wear them all the time.
- ☐  Ear defenders. The saw is loud.
- ☐  Dust mask. For the dusty jobs.

Shopping list

- [ ] **1 length** of 3x2 wood (CLS), **2400 mm** long, **63 mm** by **38 mm**.
- [ ] A piece of **4x2** wood (**47 × 100 mm**), at least **205 mm** long. An offcut is fine.
- [ ] **16 screws**, **4 × 70 mm**, and **wood glue**.
- [ ] **1 sheet** of sandpaper, **120** grit.
- [ ] Fairy lights or paint, if you want them.

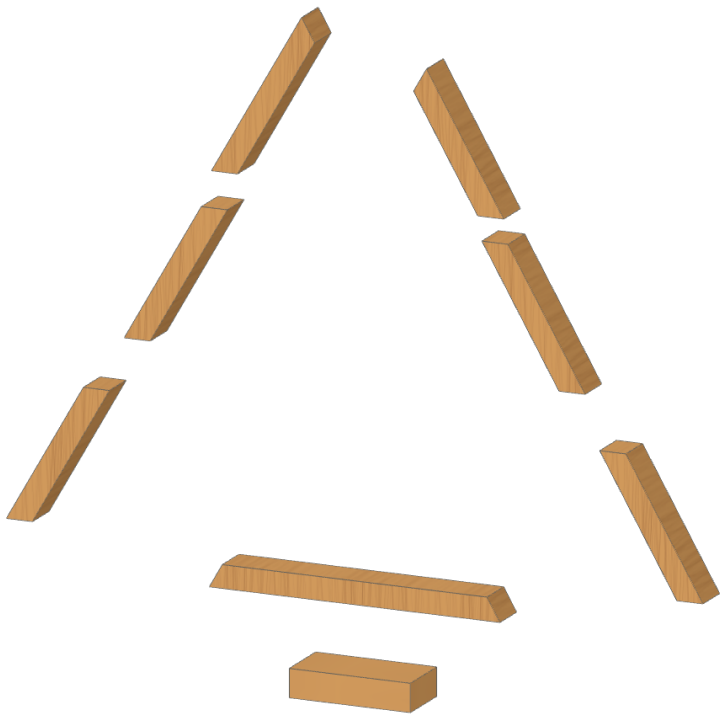
Pick lengths that are **straight**, with **no big knots** near the ends. For outdoors, **paint** the tree.



The 8 parts

Parts 01 to 04 are 3x2: **38 mm** faces you, **63 mm** deep. Every cut is **30°**. The base is **4x2**.

No	Part	Long point (mm)	Angles	How many
01	Long top arm	**305**	30° flip	1
02	Short top arm	**261**	30° flip	1
03	Tier arm	**261**	30° no flip	4
04	Bottom bar	**492**	30° flip	1
05	Base (4x2)	**205**	square	1



Step 1 of 13

Mark the length

Done

Lay the 3x2 on the bench, **38 mm side up**.

Mark each part from one end, as in the picture. Measure along the **long edge**.

Draw each **30°** line with the square or bevel.



part

Bar, two top arms and 4 tier arms. The base comes from 4x2.

Step 2 of 13

Cut the bottom bar

Done

Ask your helper

Your helper sets the saw to **30°**.

Cut one end. Measure **492** mm along the long edge.

Flip the wood and cut the other end. This is the **bottom bar (04)**.



wood on the bench — cut now

Step 3 of 13

Cut the long top arm

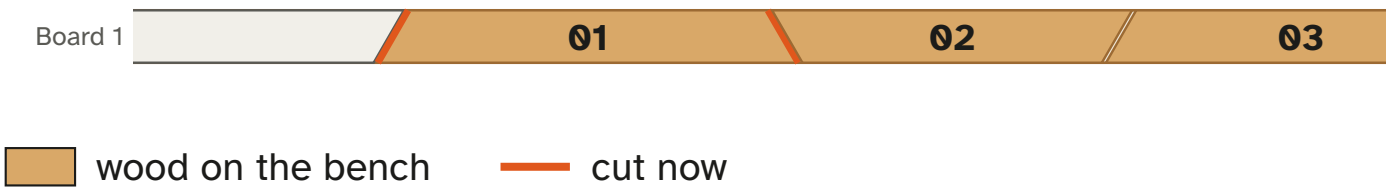
Done

Ask your helper

Keep the saw at **30°**.

Measure **305** mm along the long edge.

Flip the wood and cut. This is the **long top arm (01)**.



Step 4 of 13

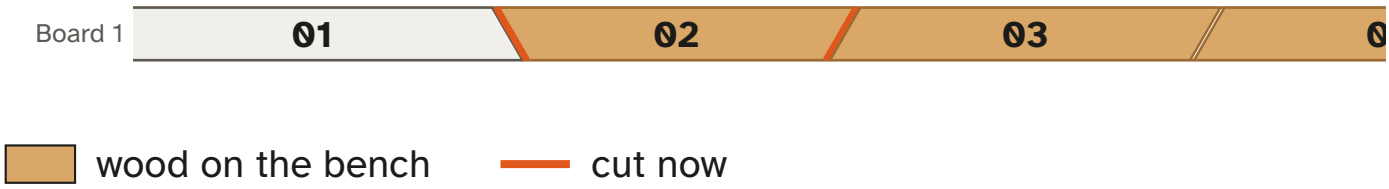
Cut the short top arm

Done

Ask your helper

Measure **261** mm along the long edge.

Flip the wood and cut. This is the **short top arm (02)**.



Step 5 of 13

Cut the 4 tier arms

Done

Ask your helper

Measure **261** mm along the edge each time and cut.

Do not flip. Every cut slopes the same way, so one cut makes the end of the next arm.

The rest of the length is spare.



wood on the bench cut now

Step 6 of 13

Cut the base

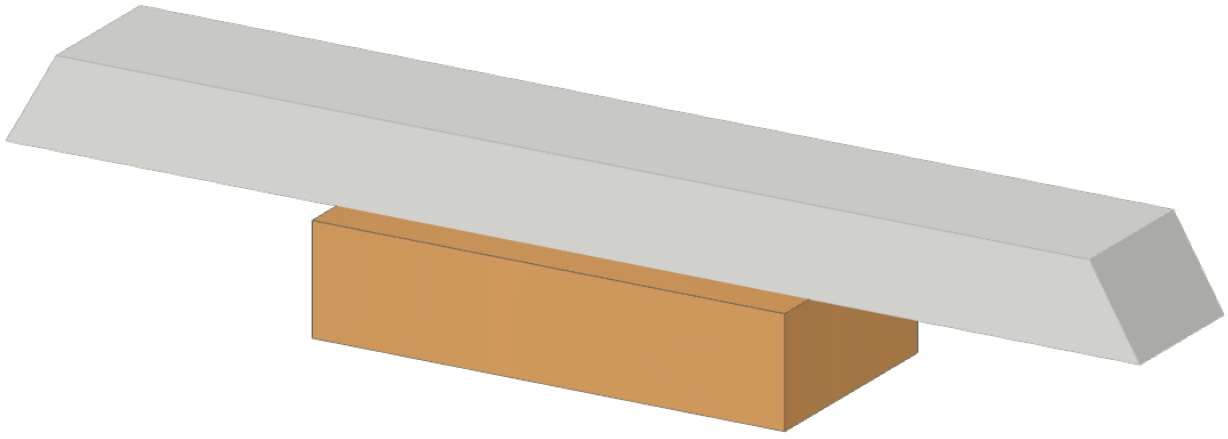
Done

Ask your helper

Take the **4x2**.

Measure **205** mm and cut **square** (no angle).

This is the **base (05)**.



Step 7 of 13

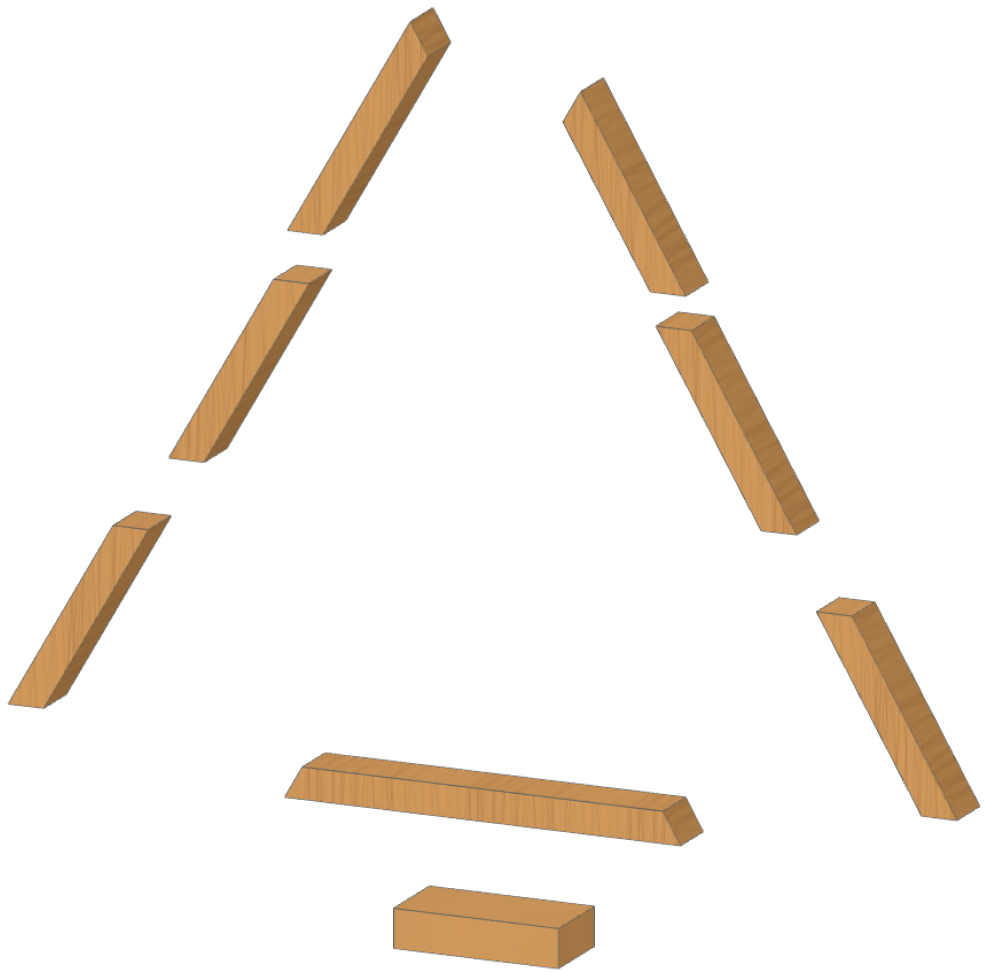
Sand all the parts

Done

Put on your **safety glasses** and **dust mask**.

Sand every **cut end** and the **sharp points**.

Lay out all **8 parts** like a tree. Check each one.



Step 8 of 13

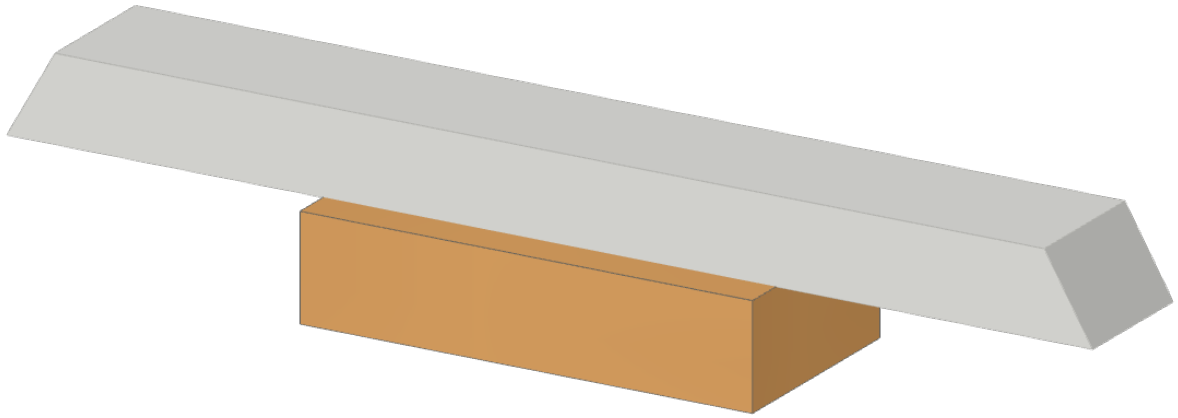
Base under the bar

Done

Ask your helper

Lay the **bottom bar (04)** flat, long edge down. Centre the **base (05)** under it, wide side down.

Glue. Drill **2** pilot holes down through the bar into the base. Screw: **2** screws.



Step 9 of 13

Bottom tier arms

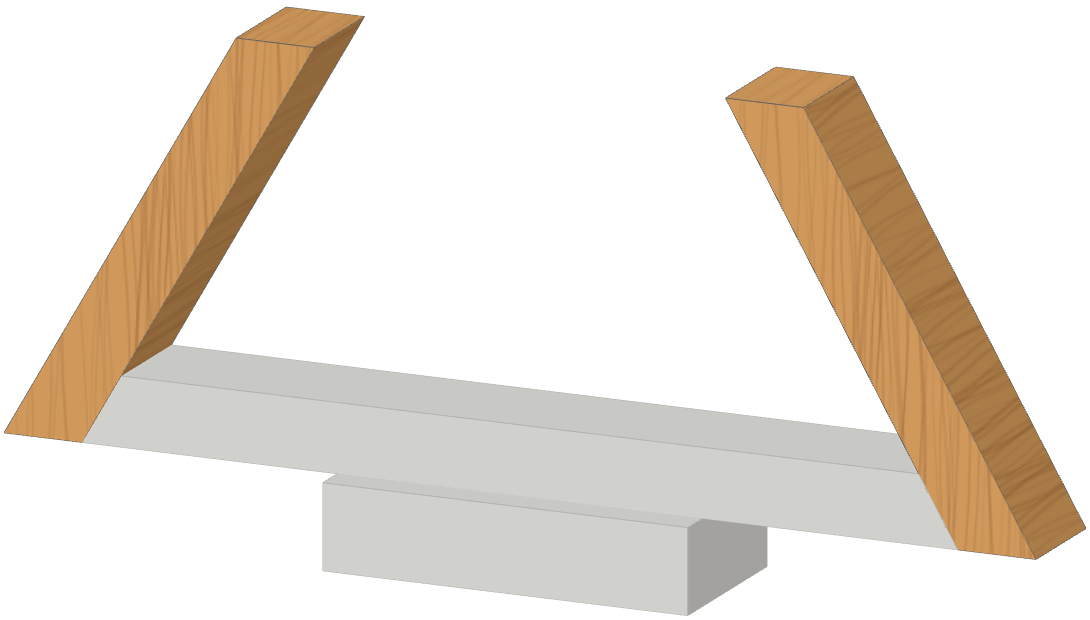
Done

Ask your helper

Stand a **tier arm (03)** at each end of the bar. The bar fits **between** them.

The bottom of each arm lines up with the **bottom of the bar**.

Glue. Screw through each arm into the bar end: **4** screws.



Step 10 of 13

Middle tier arms

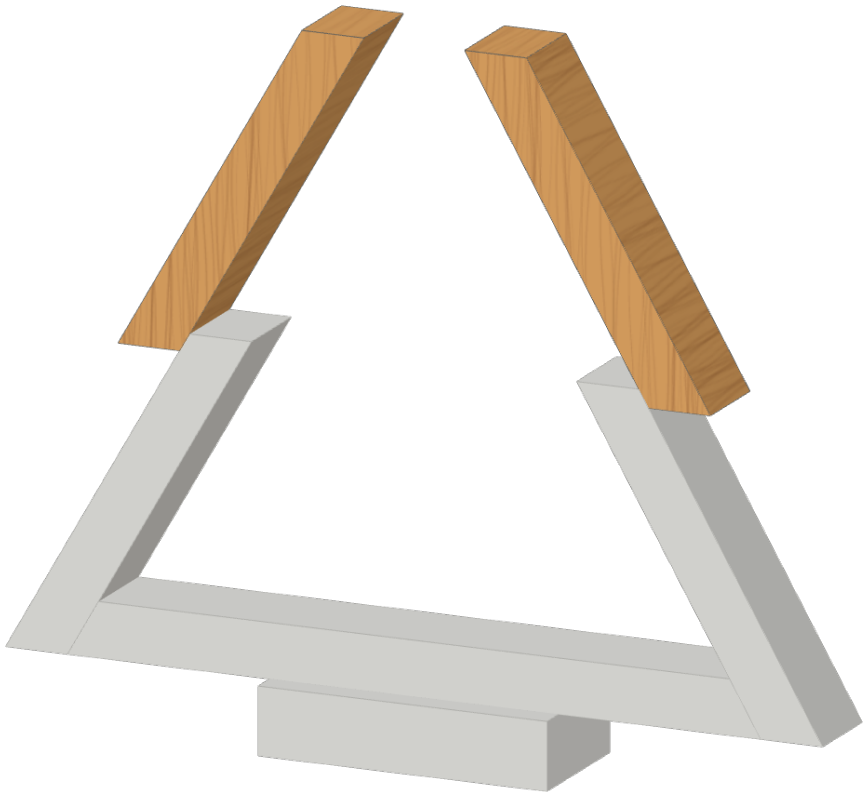
Done

Ask your helper

Put a **tier arm (03)** on the **outside** of each bottom arm, edges touching.

Its bottom end sits **50** mm below the top of the bottom arm, and sticks out like a branch.

Glue. Screw through it into the bottom arm: **2** each side, **4** screws.



Step 11 of 13

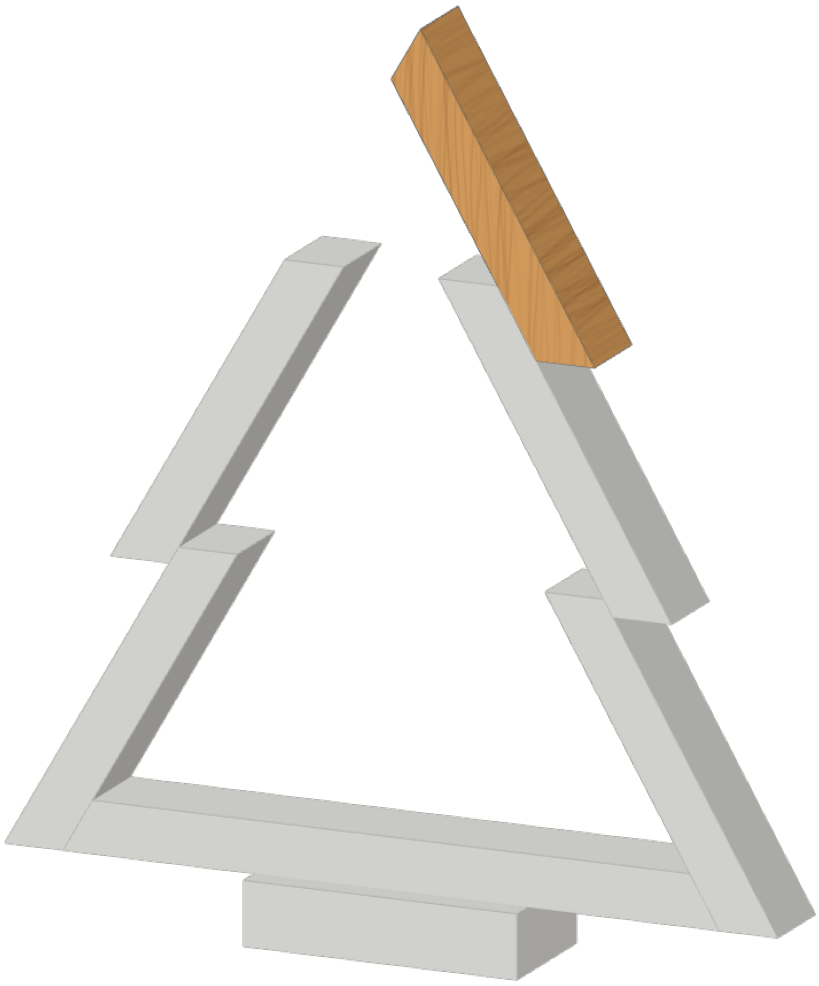
Short top arm

Done

Ask your helper

Put the **short top arm (02)** on the outside of the right middle arm, **50** mm overlap.

Glue. Screw through it: **2** screws.



Step 12 of 13

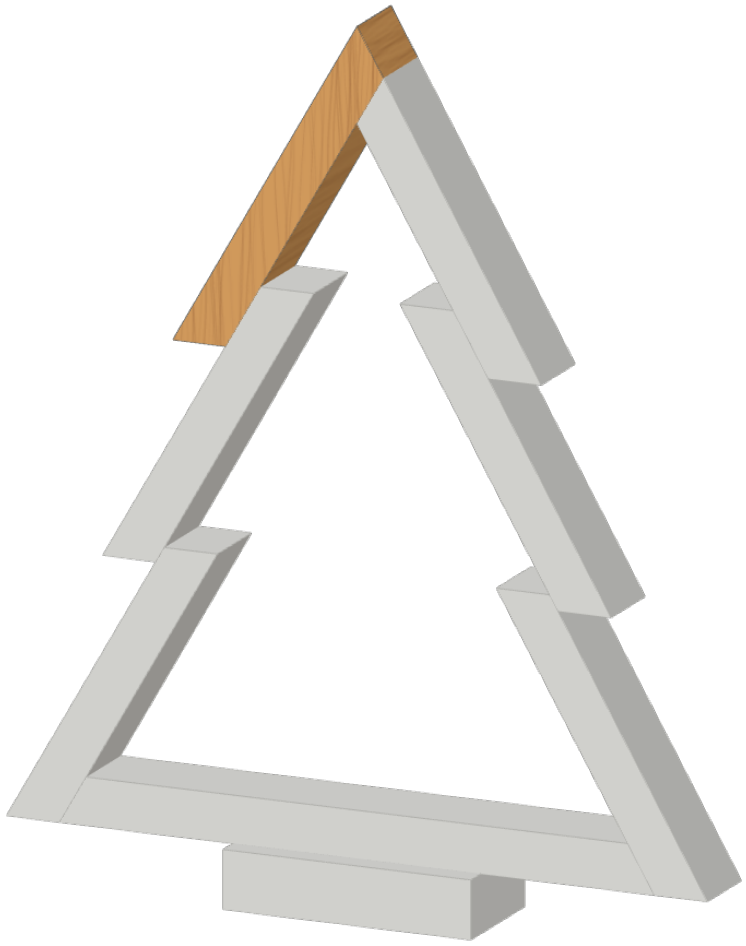
Long top arm

Done

Ask your helper

Put the **long top arm (01)** on the left, the same way: glue, **2** screws.

At the top, it crosses the short arm. Screw through the long arm into the short arm: **2** screws.



Step 13 of 13

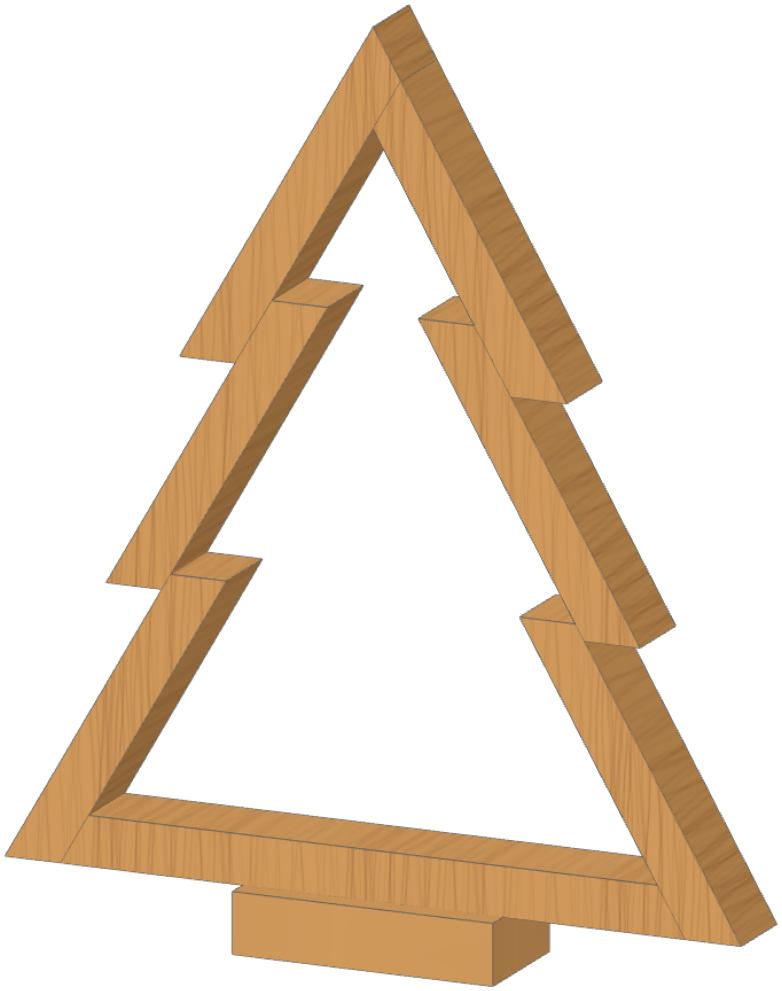
Check and finish

Done

Let the **glue** dry.

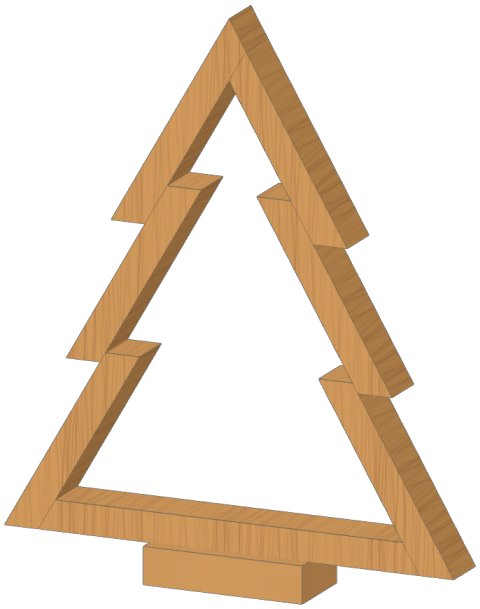
Sand the **point** and the **corners**. Check every screw head sits **flat**.

Stand it up. Add **lights** if you like.



Well done!

You made a Christmas tree from 1 length of wood.



Name _____

Date _____

It will stand _____