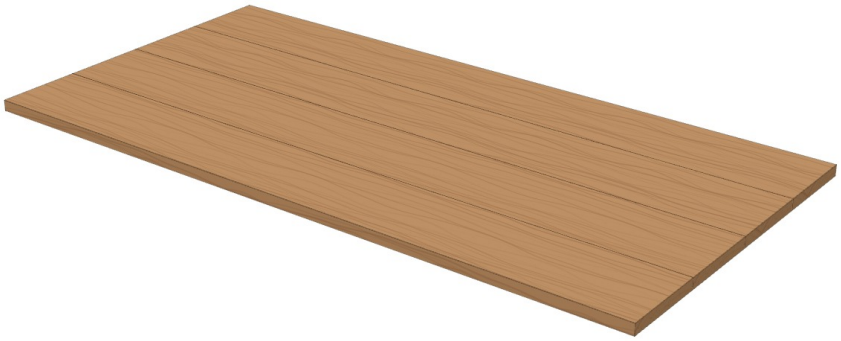
# Coffee table top

Overall size: 48" W × 24" D × 3/4" H



| Parts | Sheets and boards | Saw kerf | Units |
|---|---|---|---|
| **4 (1 different)** | **1** | **1/8"** | **Inches** |

## Materials to buy

| Qty | Material | Label in plan | Board feet |
|---|---|---|---|
| 1 | 4/4 Red Oak, rough, random widths and lengths<br>9.0 bf in the blanks plus 20% for defects. Board A holds 9.8. | Board A | 11 |

## Cost

In USD, at this project's prices

| Qty | Item | Price | Per | Total |
|---|---|---|---|---|

| Qty | Item | Price | Per | Total |
|---|---|---|---|---|
| 11 | 4/4 Red Oak, rough, random widths and lengths (board feet to buy, with the milling allowance) | $6.00 | a board foot | $66.00 |
| **Wood** | | | | **$66.00** |
| **Total** | | | | **$66.00** |
| $30.00 of the wood is offcuts and kerf (45%), counted in Wood above. | | | | |

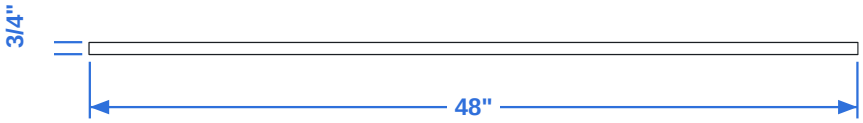
# Views

Use the written dimensions; don't scale the drawing.

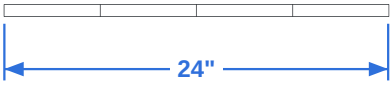
### Top



### Front

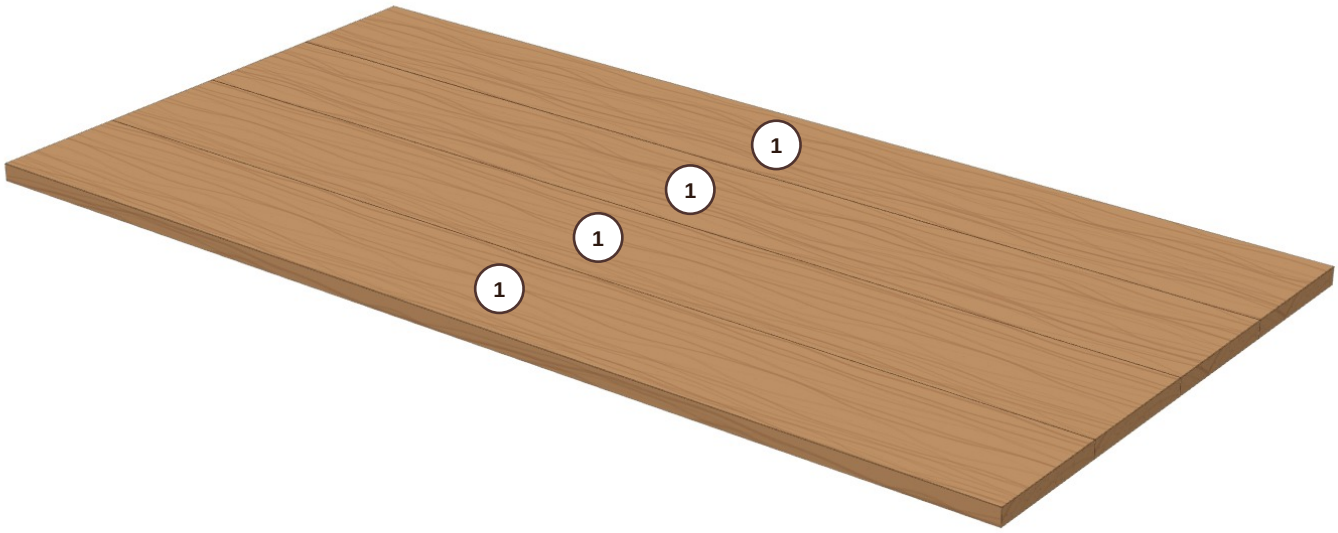



### Right side



## Exploded view

Every part by its number in the cut list



## Cut list

Length runs with the grain

| # | Part | Qty | Length | Width | Thick | Material | From | Grain |
|---|---|---|---|---|---|---|---|---|
| **1** | Top board | 4 | 48" | 6" | 3/4" | Red Oak | A | Length, moves 3/32" |

### Wood movement

• Top board (flat-sawn red oak, 6" across the grain) moves about 3/32" between 30% and 60% humidity.

## Milling

Blanks for the parts from rough boards

Each blank allows 2" over at each end for snipe, 1/4" in width and thickness to clean up, 20% more to buy for defects. The milling steps come first in the cut sequence.

| Blank for | Rough size | From | Notes |
|---|---|---|---|
| Top board ×4 | 4 × 52" × 6-1/4" × 4/4 | Board A | Wider than the jointer: planer sled |

## Leftovers

Usable offcuts after cutting

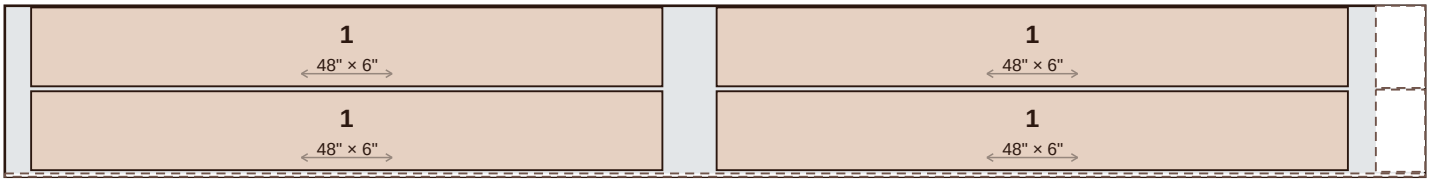
| Piece | Length | Width | Thick | Material |
|---|---|---|---|---|
| Offcut A1 | 3-3/4" | 6-1/4" | 1" | Red Oak |
| Offcut A2 | 3-3/4" | 6-1/4" | 1" | Red Oak |
| Offcut A3 | 108" | 1/4" | 1" | Red Oak |

## Cutting diagrams

Grey gaps are saw kerf (1/8"). Red is joinery.

**Board A** 4/4 Red Oak, rough, 13" × 9'

82% used




108" long, grain runs left to right

13" wide

| | | |
|---|---|---|
| **1** | Top board ×4 | 48" × 6" |

## Cut sequence

Check off each step as you go

- [ ] **1** Get Board A: 4/4 Red Oak, rough, 13" × 9'. Mark the blanks on it with chalk, around knots, checks and splits.
- [ ] **2** From Board A, rough cut 4 blanks 52" × 6-1/4" for Top board ×4 (2" over at each end, 1/4" over in width), and rip it on the bandsaw. Board A is wider than your 6" jointer, so rip it before you joint a face.
- [ ] **3** Flatten one face of the blanks for Top board ×4 on the planer with a sled: they're 6-1/4" wide, wider than your 6" jointer.
- [ ] **4** Joint one edge of each blank square to the flat face: Top board ×4.
- [ ] **5** Plane Top board ×4 to 3/4" thick: the flat face down first, then turn it over each pass to take the same off both faces. The extra at each end takes the snipe.
- [ ] **6** Rip Top board ×4 to 6" wide on the table saw, the straight edge against the fence. Leave it a hair over and joint the saw marks off.
- [ ] **7** Square one end of the blanks for Top board ×4, cutting off the snipe, then crosscut Top board ×4 to 48" long.
- [ ] **8** Glue up Panel: Top board, Top board, Top board and Top board.

# Setup sheets

Set each machine once, then make every cut on its list

## Setup 1 Get the stock

- [ ] Board A: 4/4 Red Oak, rough, 13" × 9'; mark the blanks around knots, checks and splits — step 1

## Setup 2 Rough cut: the blanks

Cut around knots, checks and splits; the extra length takes the planer snipe.

- [ ] From Board A, rough cut 4 blanks 52" × 6-1/4" for Top board ×4 (2" over at each end, 1/4" over in width), and rip it on the bandsaw. Board A is wider than your 6" jointer, so rip it before you joint a face. — #1 step 2

## Setup 3 Planer: flatten a face on a sled

Shim the blank on the sled so it doesn't rock, the cupped side down.

- [ ] Flatten one face of the blanks for Top board ×4 on the planer with a sled: they're 6-1/4" wide, wider than your 6" jointer. — #1 step 3

## Setup 4 Jointer: one edge straight

Fence square to the table; the flat face against the fence.

- [ ] Joint one edge of each blank square to the flat face: Top board ×4. — step 4

## Setup 5 Planer: at 3/4"

The flat face down first, then turn it over each pass.

- [ ] Plane Top board ×4 to 3/4" thick: the flat face down first, then turn it over each pass to take the same off both faces. The extra at each end takes the snipe. — step 5

## Setup 6 Table saw: rip fence at 6"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Rip Top board ×4 to 6" wide on the table saw, the straight edge against the fence. Leave it a hair over and joint the saw marks off. — step 6

## Setup 7 Miter saw: square an end, then cut to length

Cut the snipe off one end first, then measure each part from that end.

- [ ] Square one end of the blanks for Top board ×4, cutting off the snipe, then crosscut Top board ×4 to 48" long. — #1 step 7

## Setup 8 Glue-ups

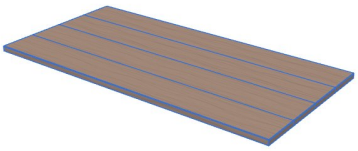
Dry fit each one first, then glue and clamp it.

- [ ] Glue up Panel: Top board, Top board, Top board and Top board. — step 8

# Assembly steps

The order it goes together

**You need at least 9 clamps of 36".**



## 1 Glue up Panel

**Parts** Top board ×4 (part 1)

**Joints** Top board and Top board: 3 edge joints, glue

**Glue** Glue every joint.

**Clamps** 9 clamps of 36", and 2 cauls across the ends to keep it flat.