

## Angle Helper - Quick Cut Guide

The Angle Helper is a simple reference chart to help you figure out what angle to cut your wood - especially for things like:

- Mitered corners (picture frames, trim, etc.)
- Sloped cuts (shelving, ramps, supports)
- Projects with angled joints (boxes, beams, or rafters)

You don't need to do any math - just use the chart below.

### What This Chart Shows:

- Slope % - how steep the angle is
- Rise over Run - how high it goes for every 12" across
- Complementary Angle - what angle you'd cut the second piece to fit it perfectly

### How to Use It:

1. Pick the angle you want (like 30° or 45°)
2. Find it in the chart below
3. Use the rise/run to lay out your cut on the board  
-> Example: For a 30° angle, go 12" across, then 6 11/16" up
4. Use the complementary angle if you're joining two angled boards together

### Angle Reference Chart:

Angle	Slope %	Rise over 12" Run	Complementary Angle
10°	17.6%	2 1/8"	80°
15°	26.8%	3 1/8"	75°
22.5°	41.4%	5"	67.5°
30°	57.7%	6 11/16"	60°
33.9°	66.7%	8"	56.1°
37.5°	76.9%	9 1/4"	52.5°

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45°	100%	12"	45°
60°	173.2%	20 13/16"	30°

### Bonus Tip:

If you're cutting two boards to meet at an angle (like a frame), just divide the total angle in half.

Example: A 90° corner = two 45° cuts.