LESSON GUIDE

Aligning and centering objects

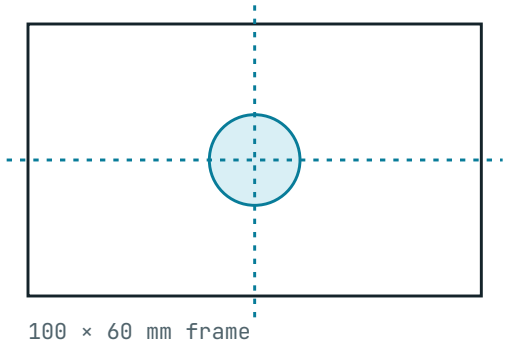
Place one shape inside another, then move the complete layout to the page center.

SOFTWARE PRACTICE

No laser needed. Supplied projects have operation Output off.

Keep the reference shape selected last

Select the inner object first. Hold Shift and select the outer frame last. The frame is the alignment reference.



In Properties, under Arrange:

Align Vertical Centers
Match the centers left to right.

Align Horizontal Centers
Match the centers top to bottom.

Move the layout together

Keep both objects selected. Click Center on Page at the top of Properties. Click empty canvas to inspect the result. To reverse a change, use Cmd + Z on Mac or Ctrl + Z on Windows/Linux.

Files in this lesson

`align-start.lzrproj`
Follow the demonstration: frame and circle.

`align-complete.lzrproj`
Check the demonstration result.

`align-practice-start.lzrproj`
Try a different layout with two rectangles.

`align-practice-check.lzrproj`
Check your independent exercise.

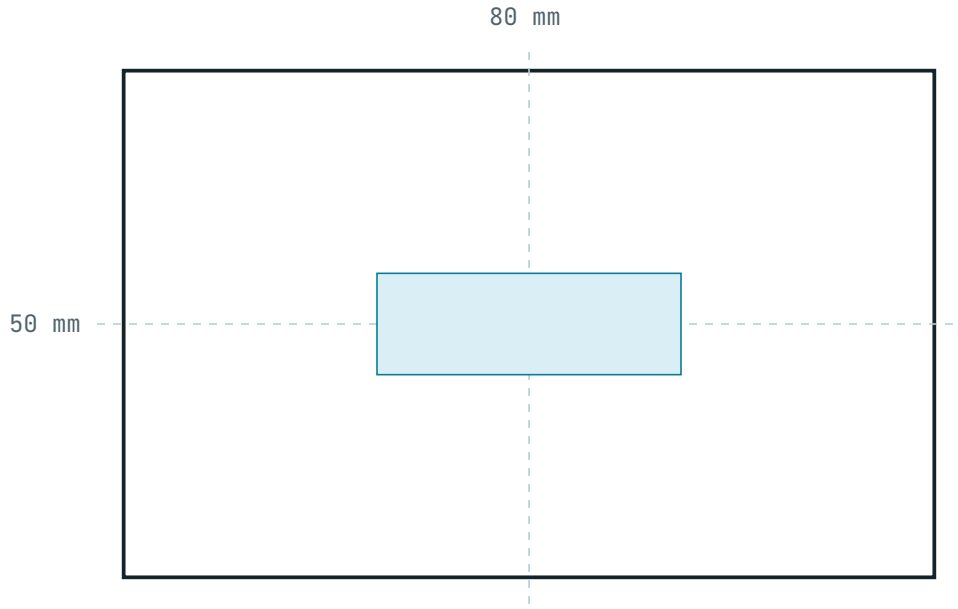
INDEPENDENT PRACTICE

Make the layout your own

Use the practice starter. Make your own attempt before checking the answer on the next page.

Your goal

Center the 30 × 10 mm rectangle inside the 80 × 50 mm frame. Then center the complete layout on the 400 × 400 mm page. Keep both shapes at their original size.



TARGET ARRANGEMENT · DIAGRAM, NOT AN APP SCREENSHOT

Try it in Beam Bench

- [ ] Open align-practice-start.lzrproj. Select the smaller rectangle first and the outer frame last.
- [ ] Use both center-alignment controls in Properties. Keep both objects selected and choose Center on Page.
- [ ] Save As a new copy so your starter stays available. Compare with align-practice-check.lzrproj after your attempt.

Before checking, predict the clearances.

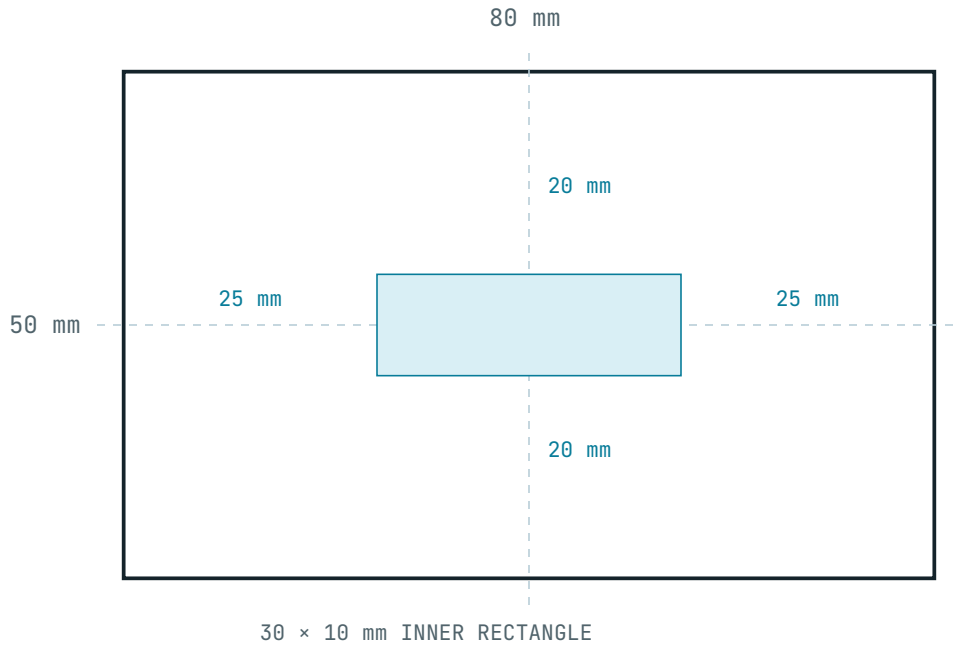
Left / right: _____ Top / bottom: _____

Shared center on the page: _____

EXPLAINED ANSWER

Check the result

Use this page after completing the independent practice.



Equal space on opposite sides

Left and right: 25 mm. The frame is 80 mm wide and the inner rectangle is 30 mm wide. The remaining 50 mm is split equally between the two sides.

Top and bottom: 20 mm. The frame is 50 mm high and the inner rectangle is 10 mm high. Split the remaining 40 mm equally.

SHARED PAGE CENTER

X 200 mm · Y 200 mm

If yours looks different

An object moved the wrong way? Undo and select the outer frame last. Both objects centered on each other but sitting off the page center? Select both and use Center on Page. Check that the original dimensions are unchanged.

`Compare with align-practice-check.lzrproj.`