LESSON GUIDE

Aligning and centering objects

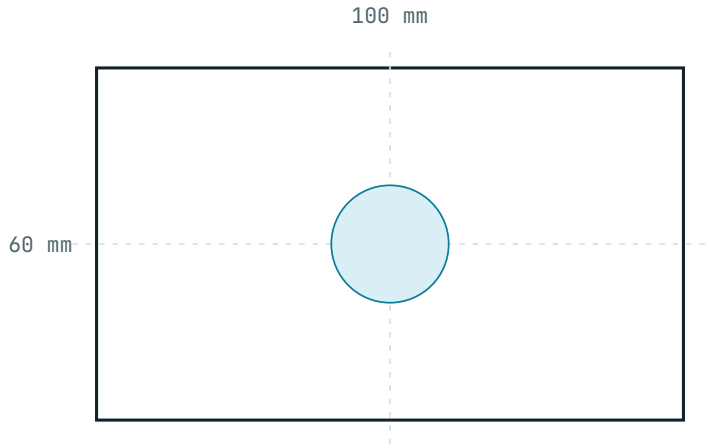
Center one shape inside another, then place the complete layout at the page center.

Software practice

No laser is needed. Supplied projects have no machine profile and operation Output is off. Their saved values are not a material recipe.

Keep the reference shape selected last

Open align-start.lzrproj. Select the circle first. Hold **Shift** and select the outer frame last. The frame is the alignment reference.



Target arrangement. Dashed lines mark the shared center.

1. Try **Align Left**, then Undo with **Cmd + Z** on Mac or **Ctrl + Z** on Windows/Linux. The last-selected frame is the reference.

2. In Properties, under Arrange, use **Align Vertical Centers** to match the centers left to right.

3. Use **Align Horizontal Centers** to match the centers top to bottom.

4. Keep both objects selected and click **Center on Page**. Click empty canvas to inspect the result.

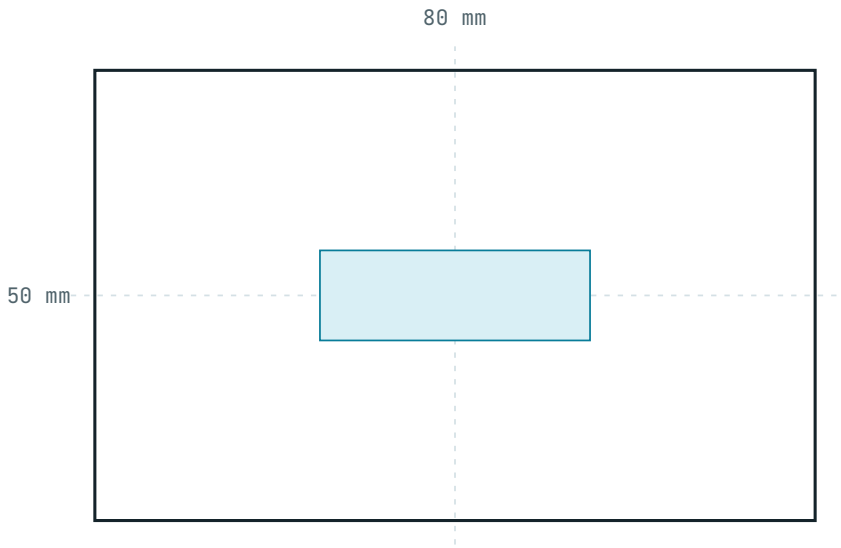
Compare with align-complete.lzrproj. Undo uses **Cmd + Z** on Mac or **Ctrl + Z** on Windows/Linux.

INDEPENDENT PRACTICE

Independent practice

Make your own attempt before checking the explained answer.

Open align-practice-start.lzrproj. Center the **30 × 10 mm** rectangle inside the **80 × 50 mm** frame, then center both on the **400 × 400 mm** page. Keep the original sizes.



Target arrangement. Dashed lines mark the shared center.

☐ Select the smaller rectangle first and the outer frame last.

☐ Use both center-alignment controls, then Center on Page with both objects selected.

☐ Save As a new copy so the starter stays available.

Predict the left and right clearances.

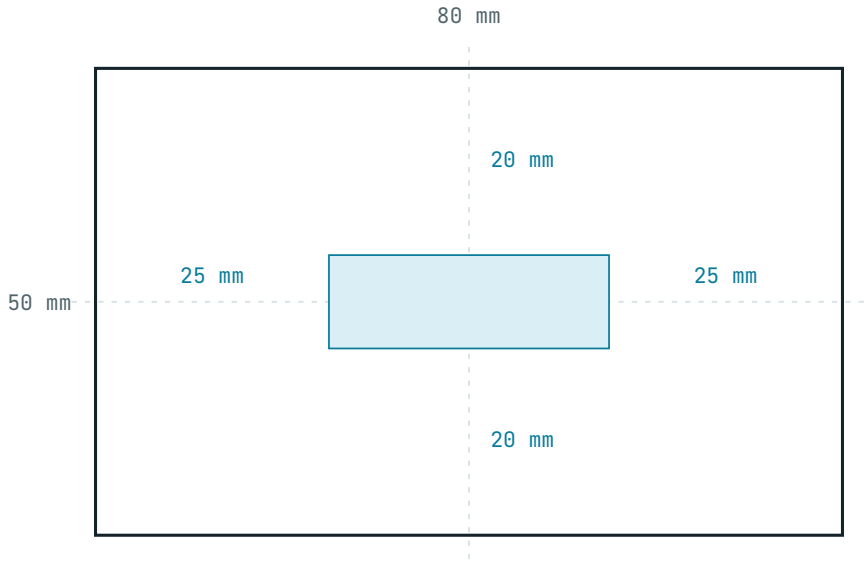
Predict the top and bottom clearances.

Where should their shared center sit on the page?

EXPLAINED ANSWER

Explained answer

Use this page after completing the independent practice.



Target arrangement. Dashed lines mark the shared center.

25 mm on each side
Subtract the inner width from the frame width: 80 minus 30 leaves 50 mm. Split that equally between left and right.

20 mm above and below
Subtract the inner height from the frame height: 50 minus 10 leaves 40 mm. Split that equally between top and bottom.

Shared page center

X 200 mm and Y 200 mm on the 400 × 400 mm page.

If an object moved the wrong way, Undo and select the outer frame last. If both objects share a center but sit away from the page center, select both and use Center on Page. Compare with align-practice-check.lzrproj.

Matches the demonstrated Beam Bench 0.2.37 interface. All supplied projects use a 400 × 400 mm page.

Watch the alignment lesson on YouTube