# Construction Lines in Orthographic Projection

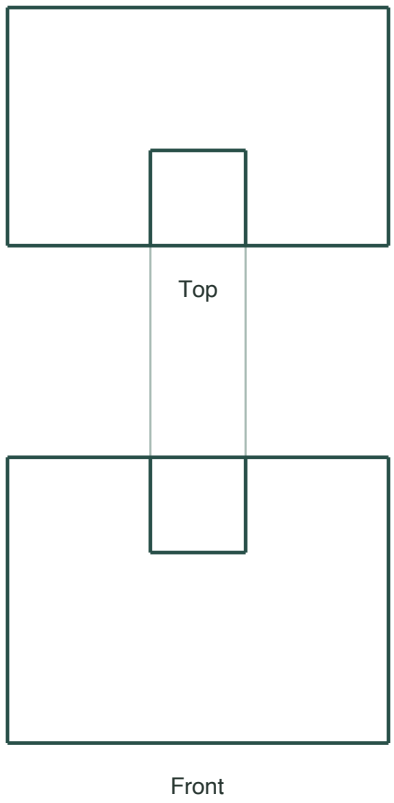
Reference I Worked example I LETTER

## Original prompt

Front view: a block with a notch in its top edge. Build the top view using construction lines and check the notch width.

## Given solid

Model: 8 wide, 5 deep, 6 high. The 2-unit notch spans x = 3 to 5, reaches 2 units back and stops at height 4.




## Answer

Read the two notch sides at x = 3 and x = 5 in front. Project vertically up to the plan, draw the outer rectangular footprint, and show the visible U of the notch continuing 2 units back from the front edge.

## Reasoning

Width transfers vertically between front and top. The height change at the notch does not change the outer plan footprint because the notch retains a lower floor.

## Check

Both guides must bound the same 2-unit notch width. Check the notch also goes 2 units back and the outer footprint stays rectangular.