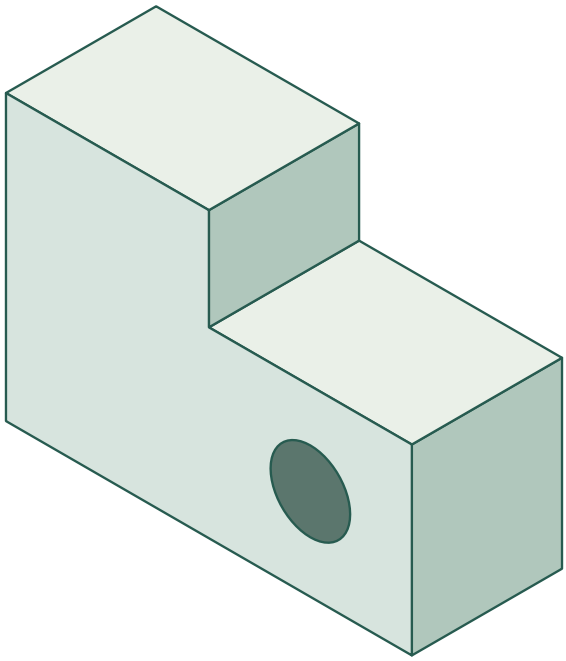
Draw a Front-View Orthographic Projection

Reference I Observation reference I LETTER

Given object

A stepped blank has a tall left side and lower right side. The round bore goes straight front-to-back through the lower right part.



One object, shown from an angle

Draw a Front-View Orthographic Projection

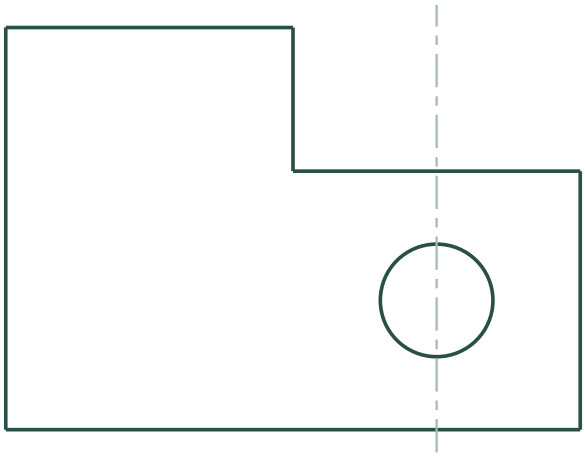
Reference I Worked example I LETTER

Original prompt

Construct the front view of the uniformly extruded block with the stepped left-high/right-low silhouette and a circular through-hole centred on its lower-right portion. Draw the outer contour, decide how the aligned near and far hole rims appear in projection, and add the selected vertical centreline.

Given object

A stepped blank has a tall left side and lower right side. The round bore goes straight front-to-back through the lower right part.



Front view

Answer

Draw one closed stepped outer silhouette with the left portion high and the right portion low; add no separate internal step lines. Place one circle at the centre of the lower-right portion and a vertical chain centreline through its centre. The equal far rim coincides with the visible rim, so draw one circle.

Reasoning

The block is uniformly extruded, so its front projection is the stepped outer contour without a second copy of the tread or riser. The hole centre lies on the lower-right portion. Its equal near and far rims differ only in depth and project to the same circle; show the visible boundary once.

Check

Check the closed left-high/right-low silhouette, with no added internal step lines. Confirm the hole is centred on the lower-right portion, appears as one circle, and has one vertical chain centreline through its centre.