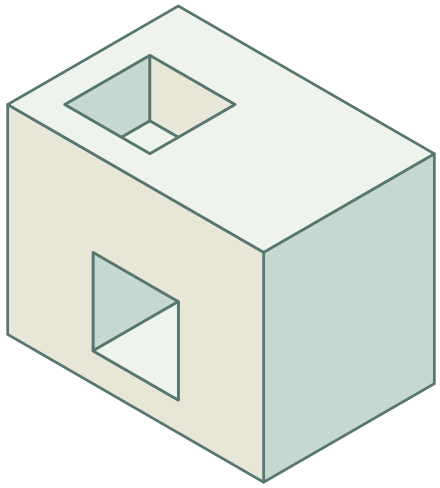
Draw Orthographic Engineering Views

Reference | Pictorial reference | LETTER

One object

Start with the pictured front-to-back bore and the separate pocket on the top face.



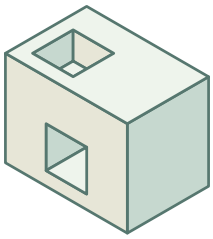
Square bore and shallow top pocket

Draw Orthographic Engineering Views

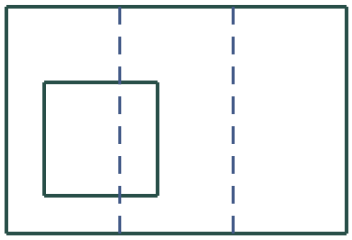
Reference I Worked example I LETTER

Original prompt

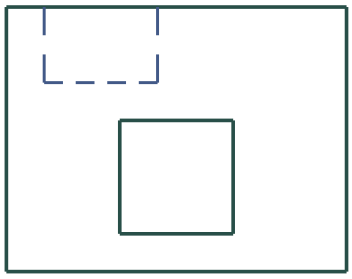
Construct front, top and side orthographic views of a rectangular block with a square through-hole from front to back and a shallow rectangular notch in the top face.



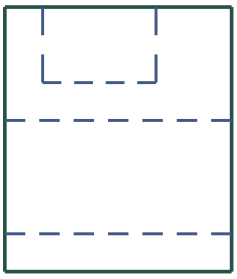
Square bore and shallow top pocket



Top



Front



Right side

Answer

Front: solid outline and solid square bore opening, with the pocket shown behind the front wall by dashed edges. Top: dashed lengthwise bore edges and a solid closed pocket opening. Right: dashed bore height lines and dashed edges for the pocket behind the side wall.

Reasoning

The hole opening faces the front, so it is solid in the front view and hidden in the top and side views. The notch is cut into the top face, so it is solid in the top view and hidden in the front and side views. All features project to matching positions across views.

Check

Compare width coordinates between front and top and heights between front and right. Compare pocket depth positions between top and right. Confirm the bore stays below the pocket and that dashed patterns remain distinguishable from solid outlines.