



PABLO

MECH 161
INTRO. TO COMPUTER
AIDED DESIGN I

INTRO. TO AUTOCAD
(ORTHOGRAPHIC PROJECTIONS)



Orthographic Drawings

- Orthographic Projections is a technical drawing in which different views of an object are projected on different reference planes observing perpendicular to respective reference plane.
- **Orthographic drawing** is a way of drawing a 3D object from different directions in 2D.

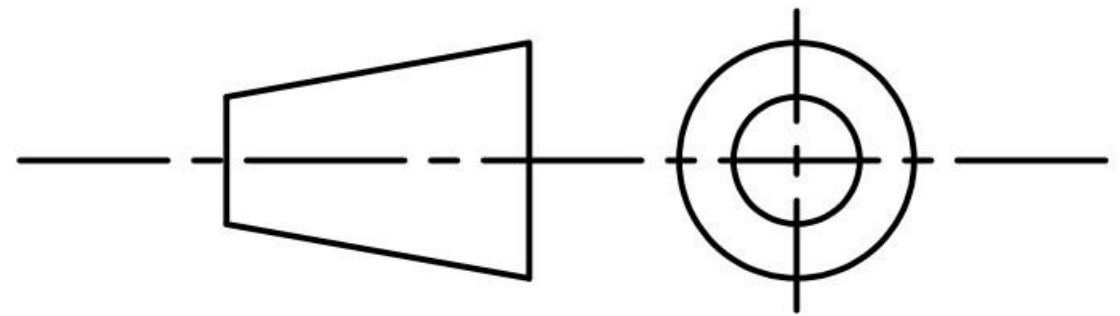
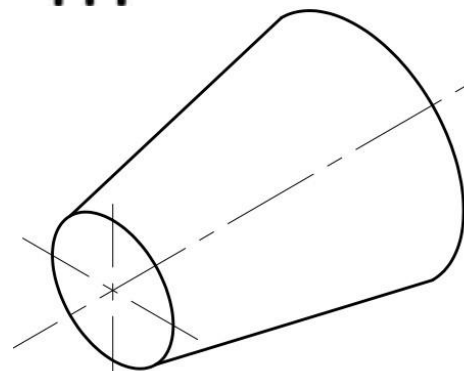
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- Usually a front, side and plan views are drawn so that a person looking at the drawing can see all the important sides.

RIGHT SIDE VIEW
(but positioned at
left side of front
view when viewing
from the right side)

FRONT VIEW

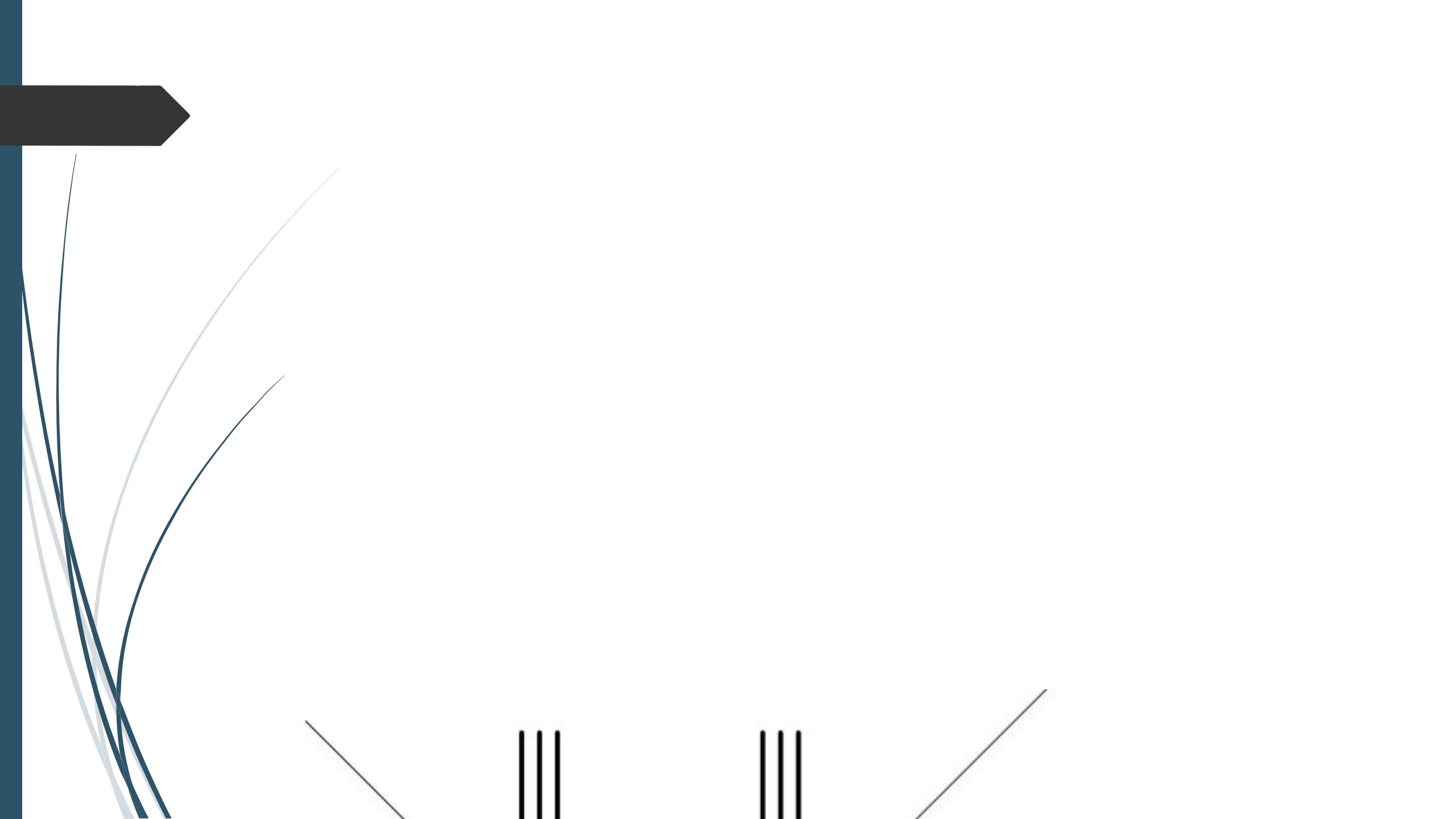
LEFT SIDE VIEW
(but positioned at
the right side of
front view when
viewing from the
left side)

TOP VIEW/PLAN

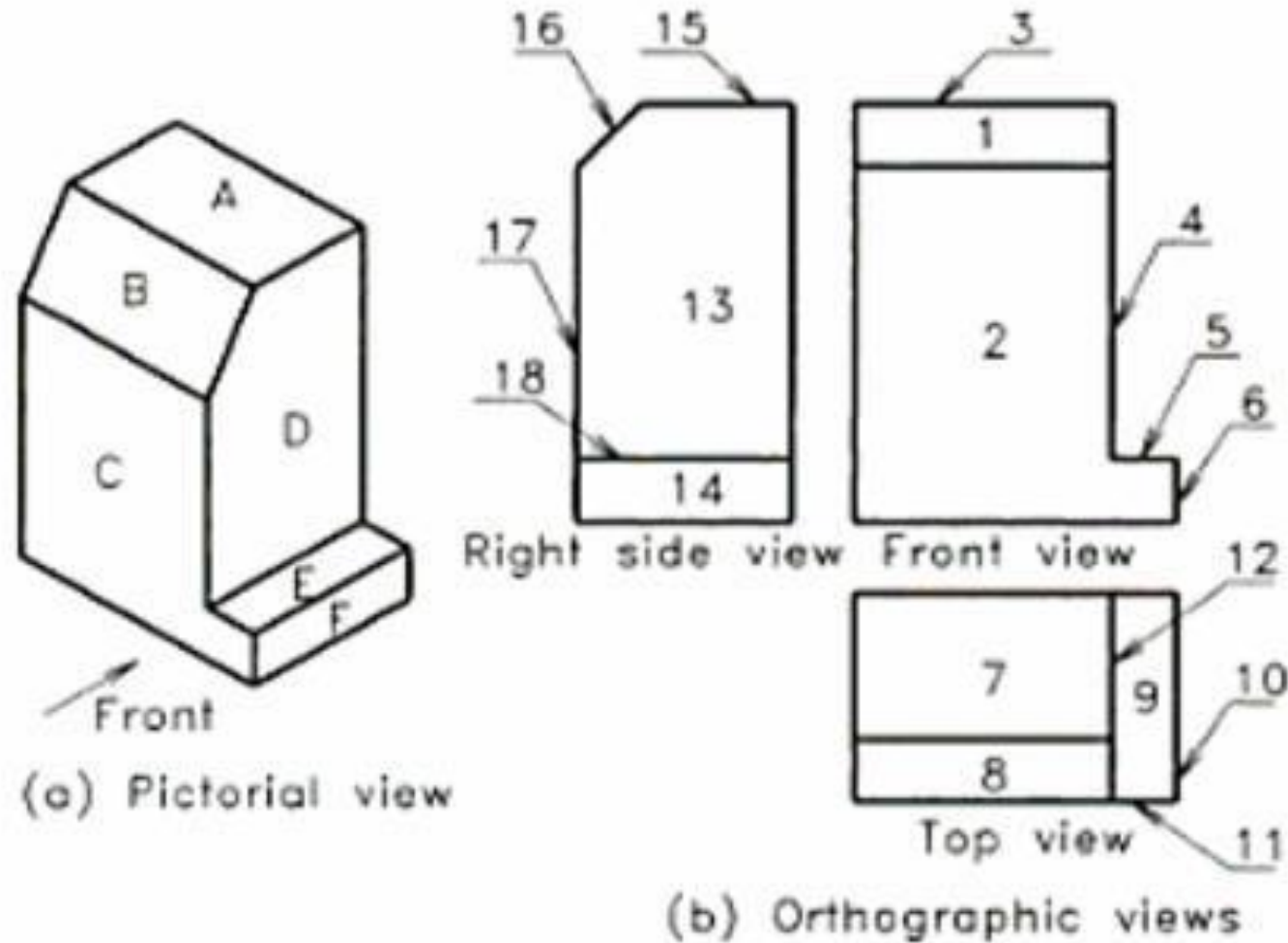




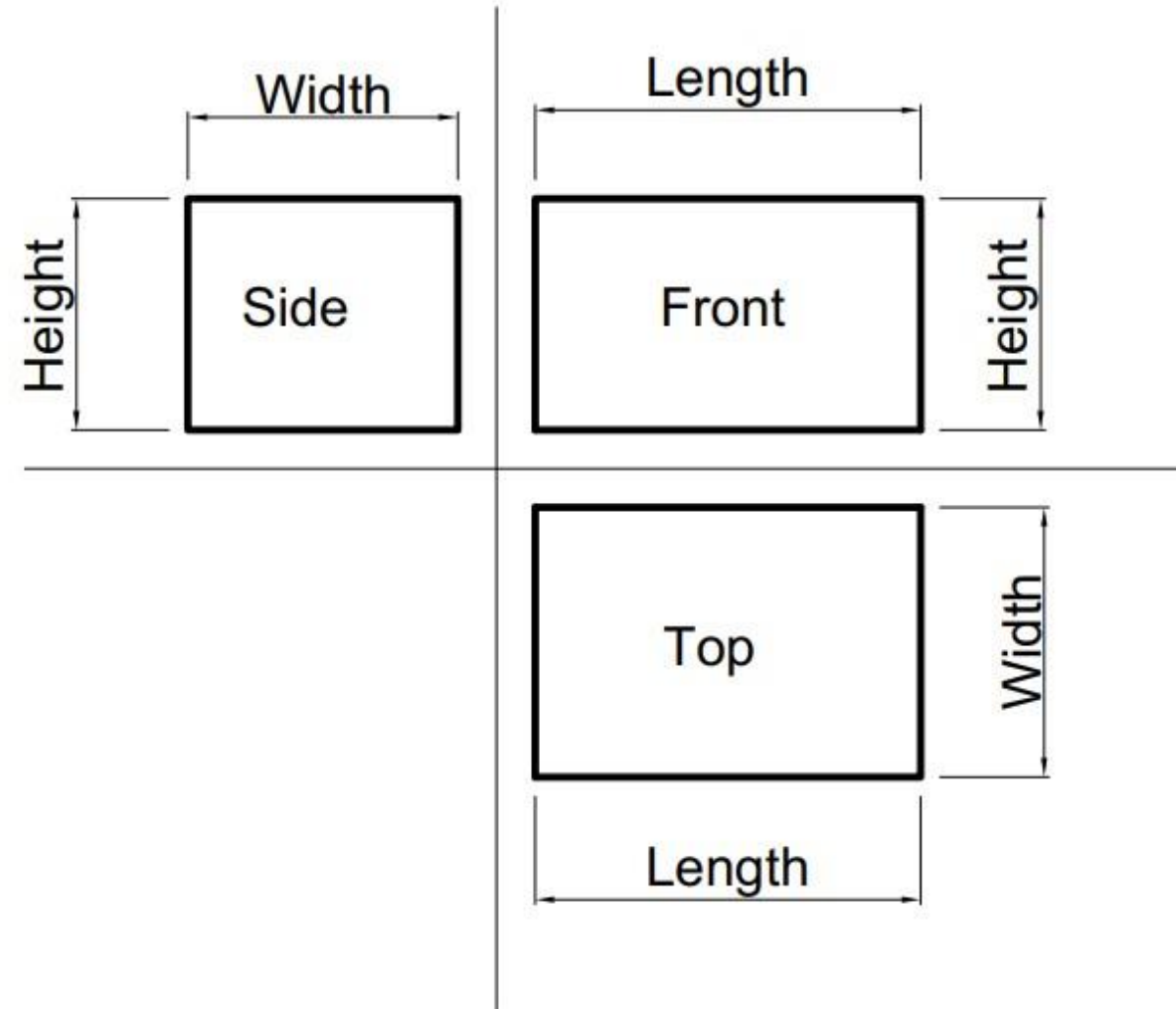
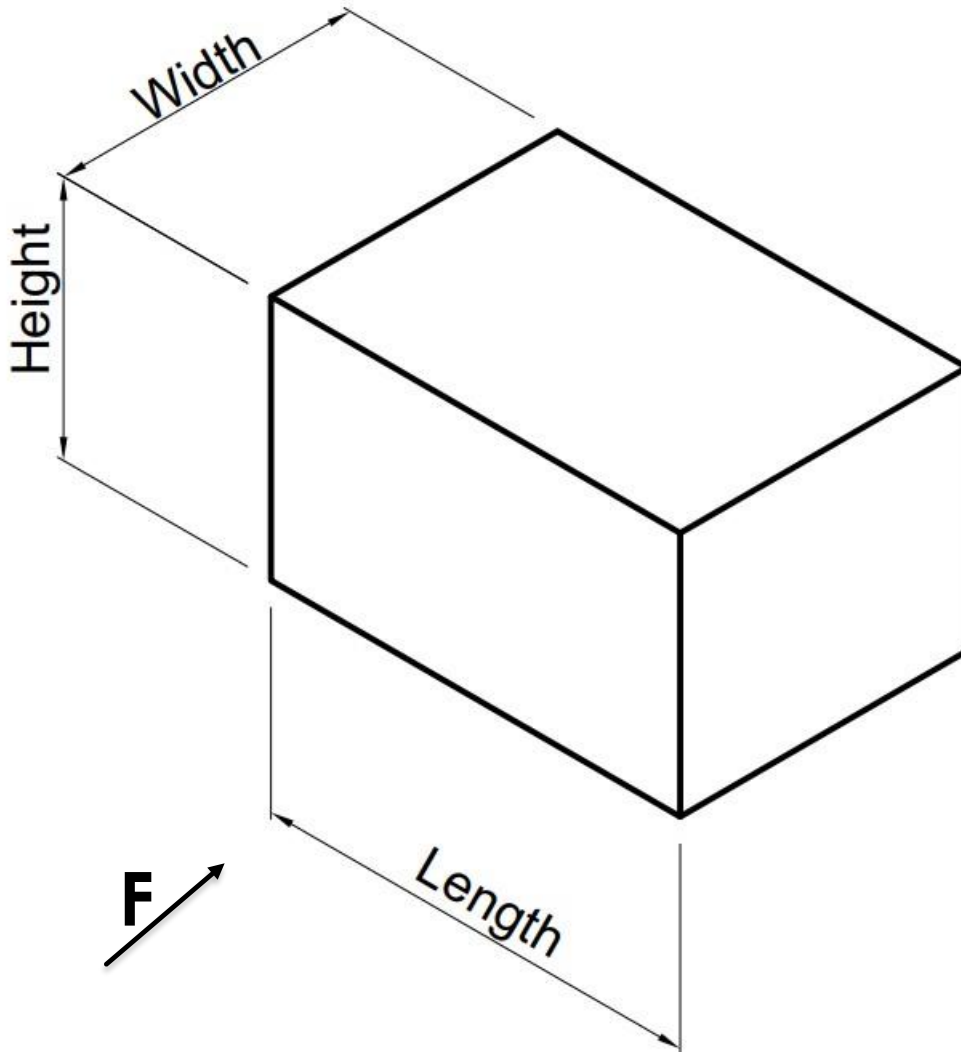
Third Angle Projection

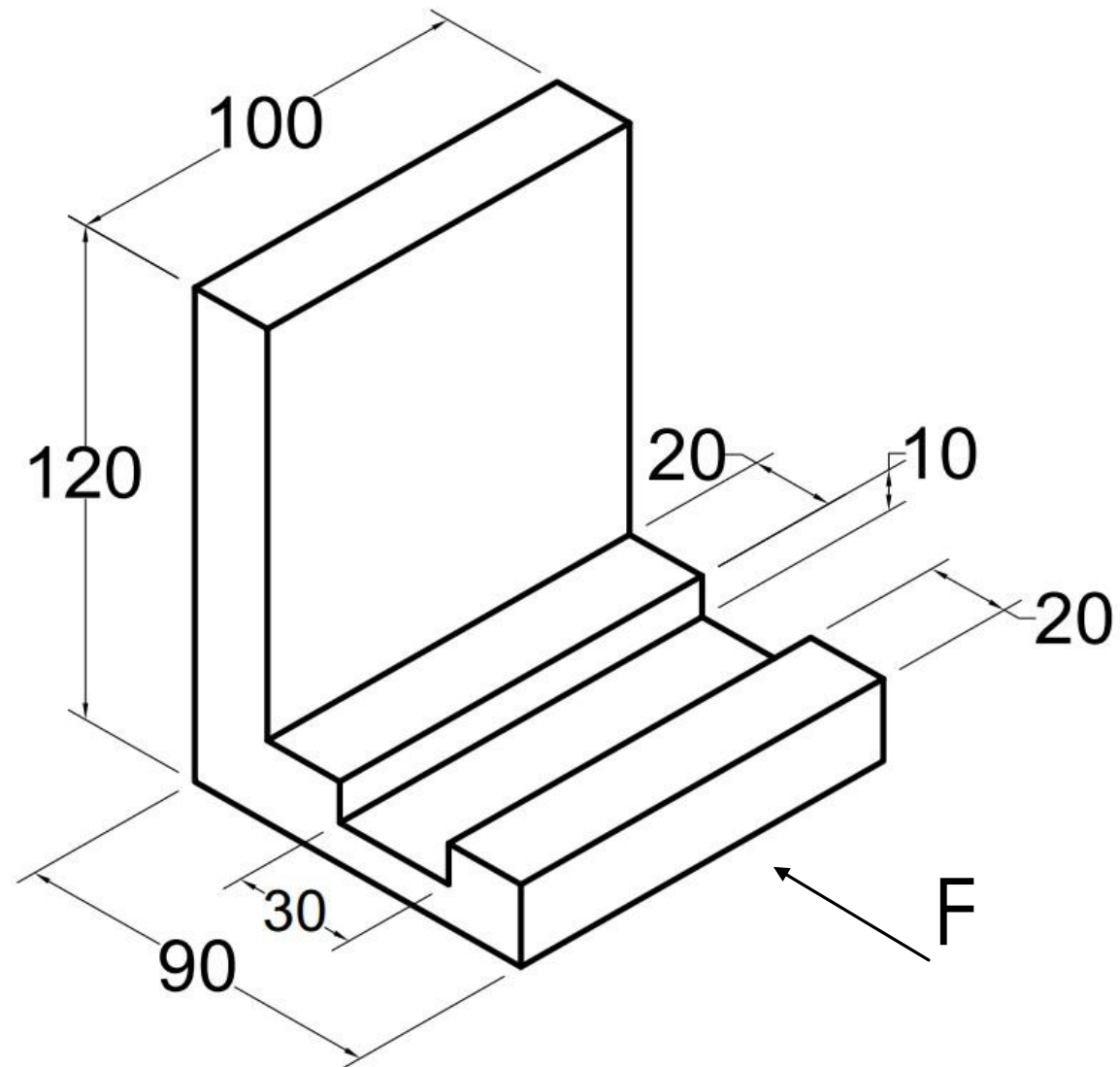


Principal Parts Observed



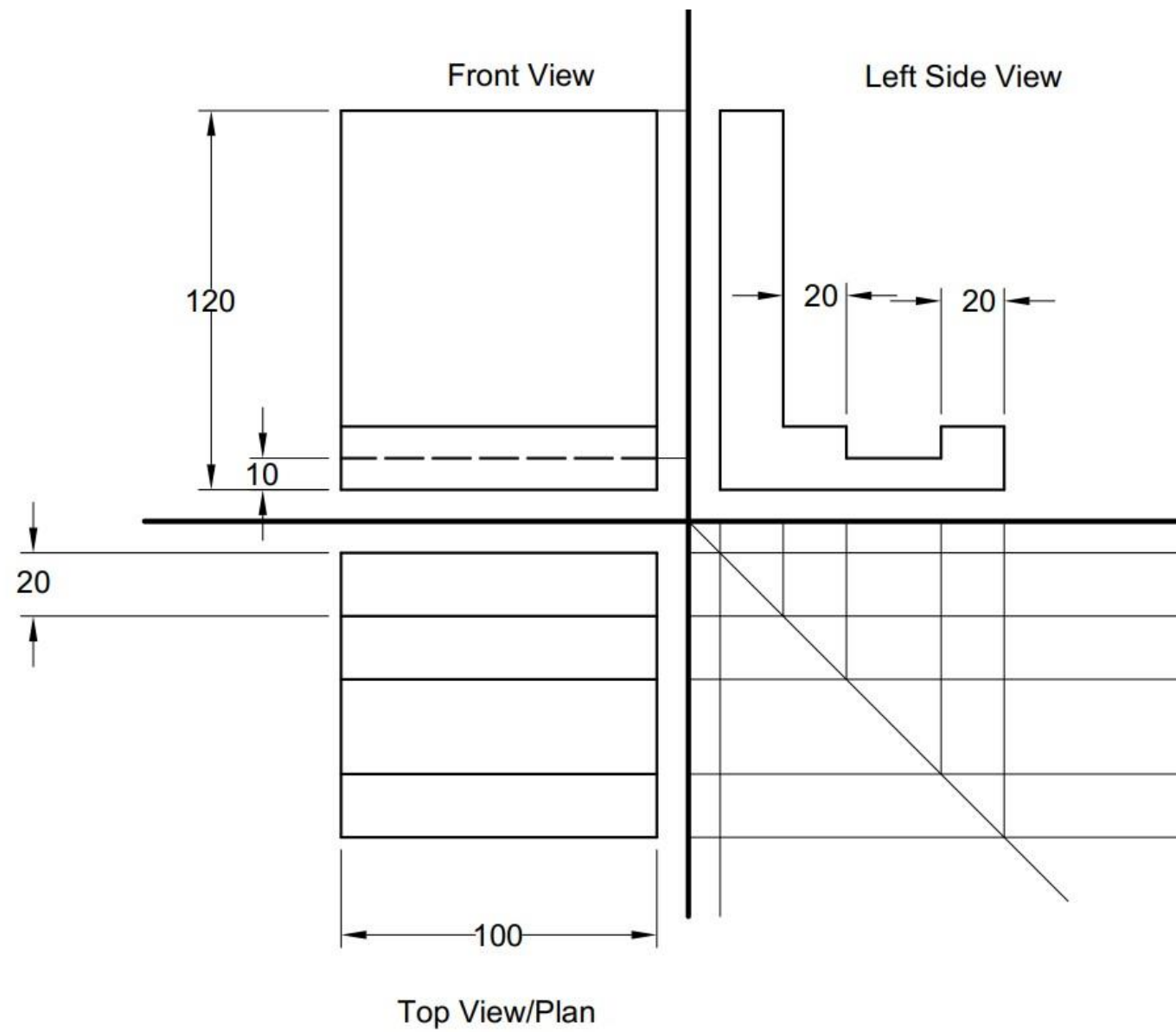
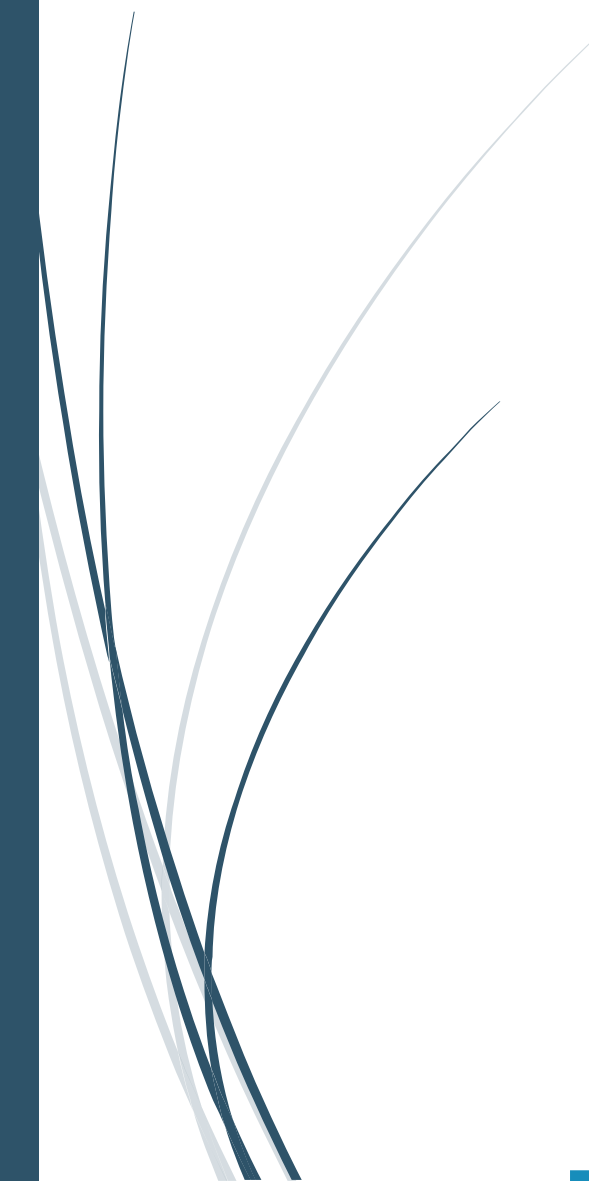
Producing the Orthographic Views

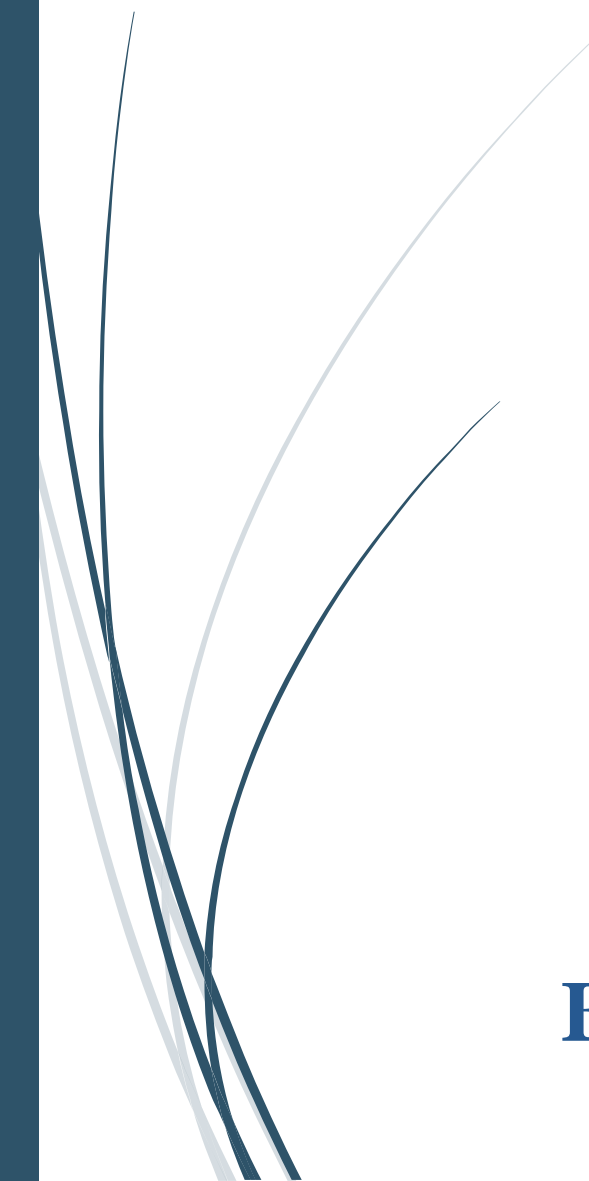






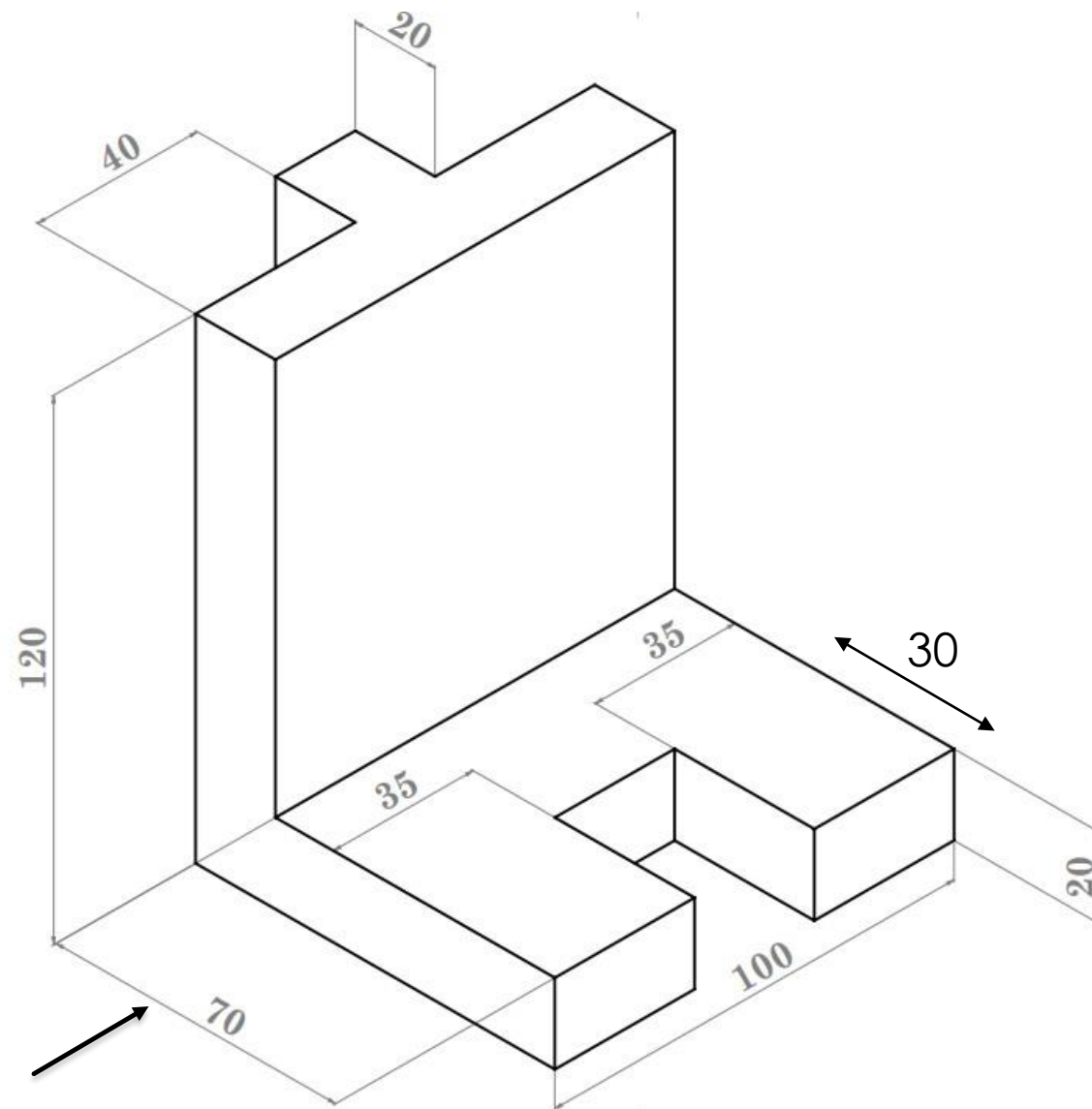
the block in 1st angle projection





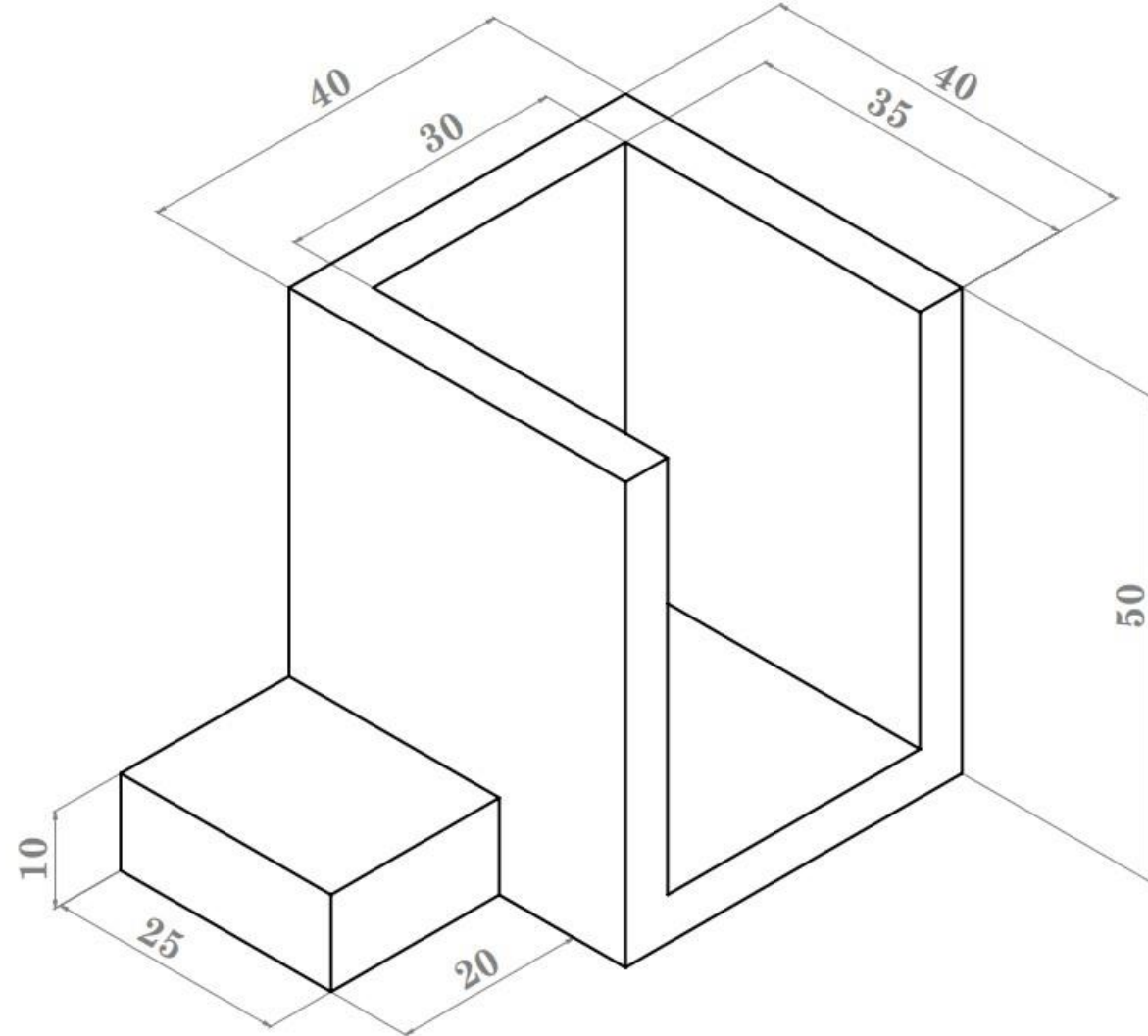
Block 3rd

F



Produce the Orthographic Views of the Isometric

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Produce

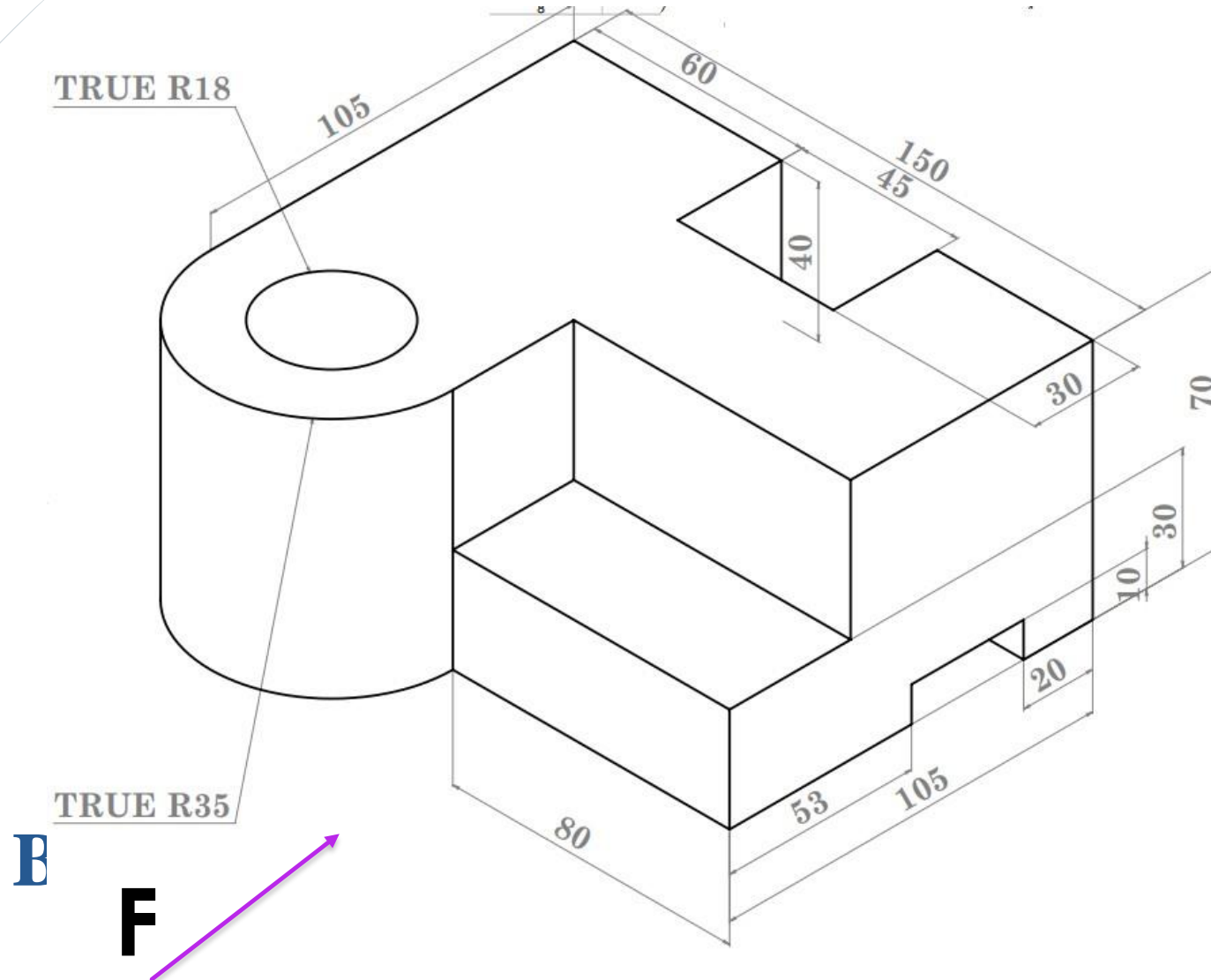


Isometric Block 1st Angle Projection

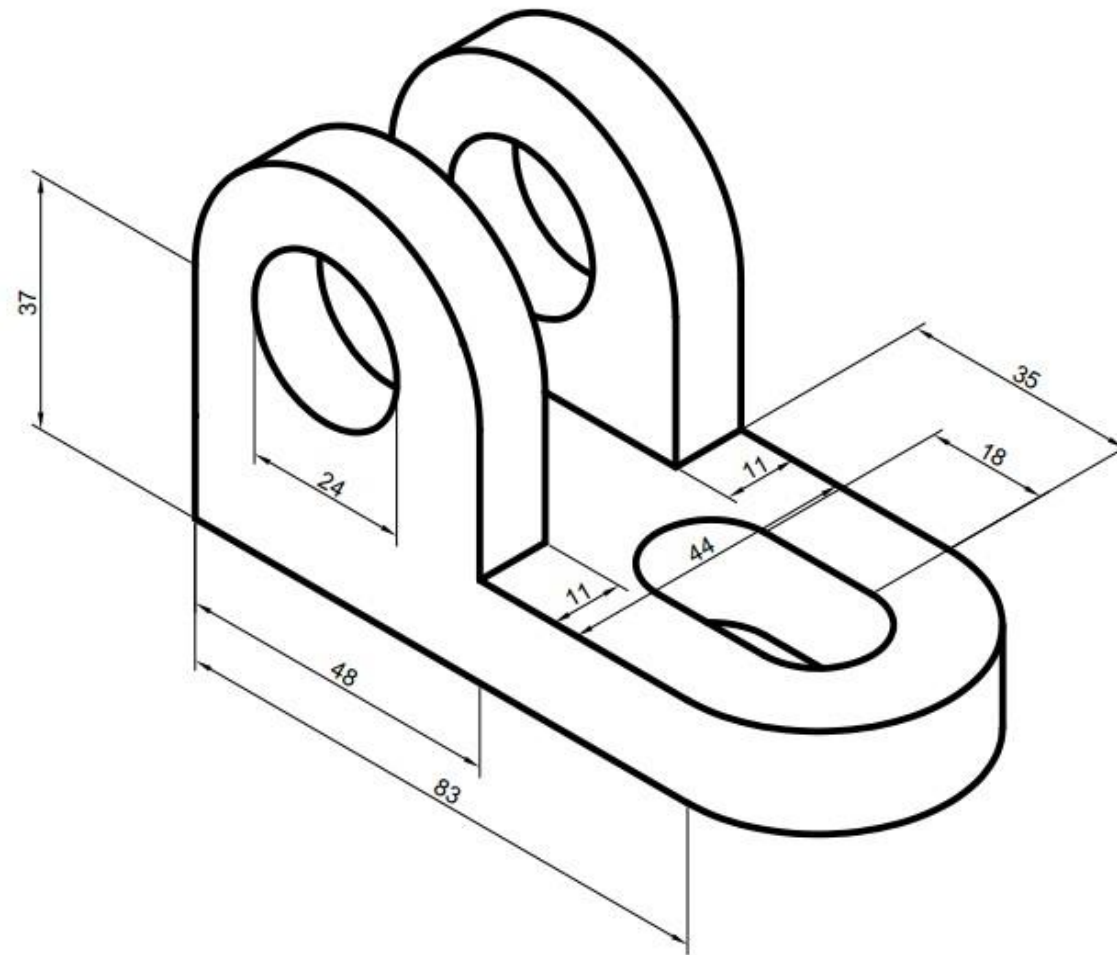


Produce the Orthographic Views of the Isometric

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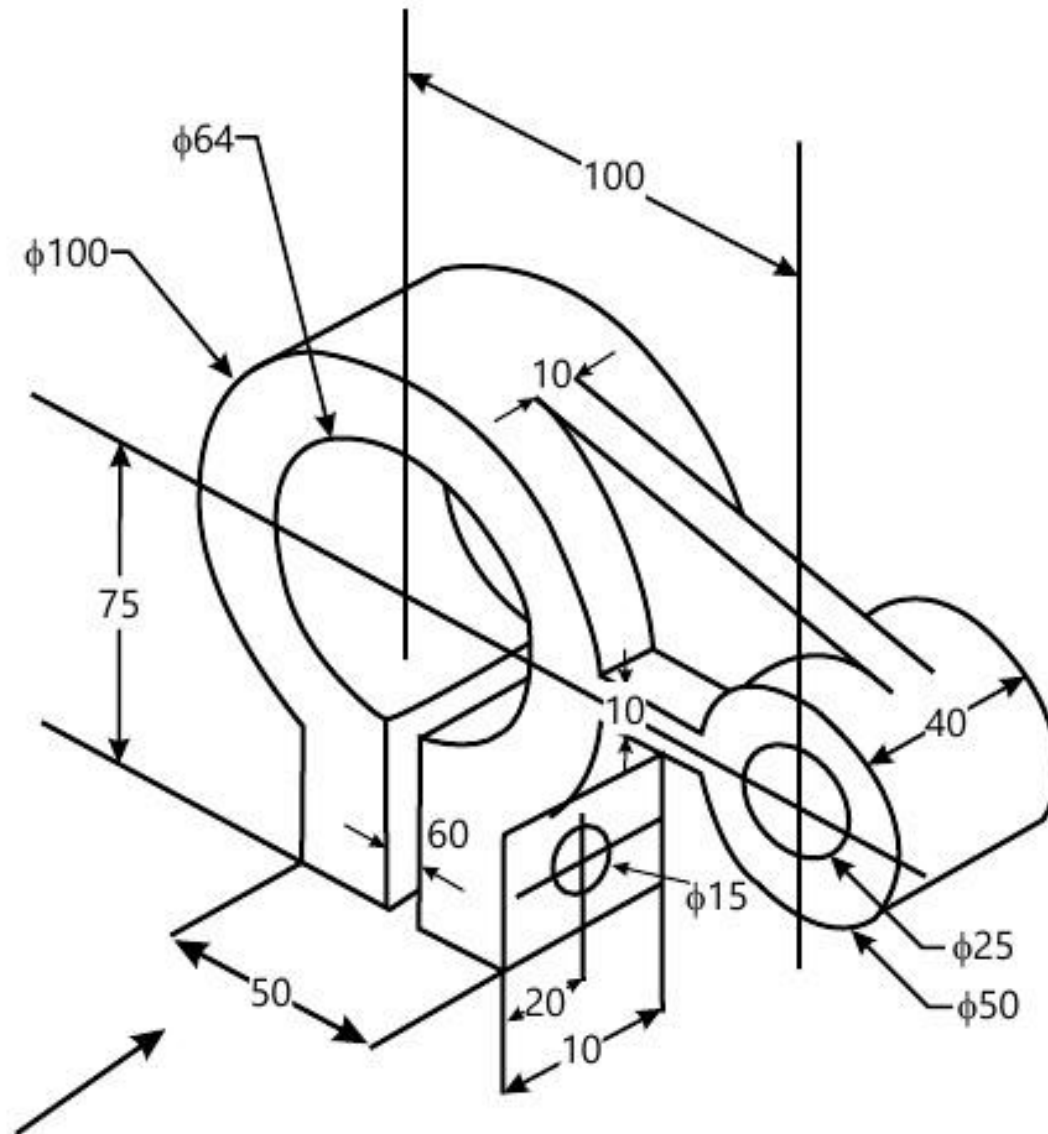
Produce the Orthographic Views of the



Produce the Orthographic Views of the Isometric

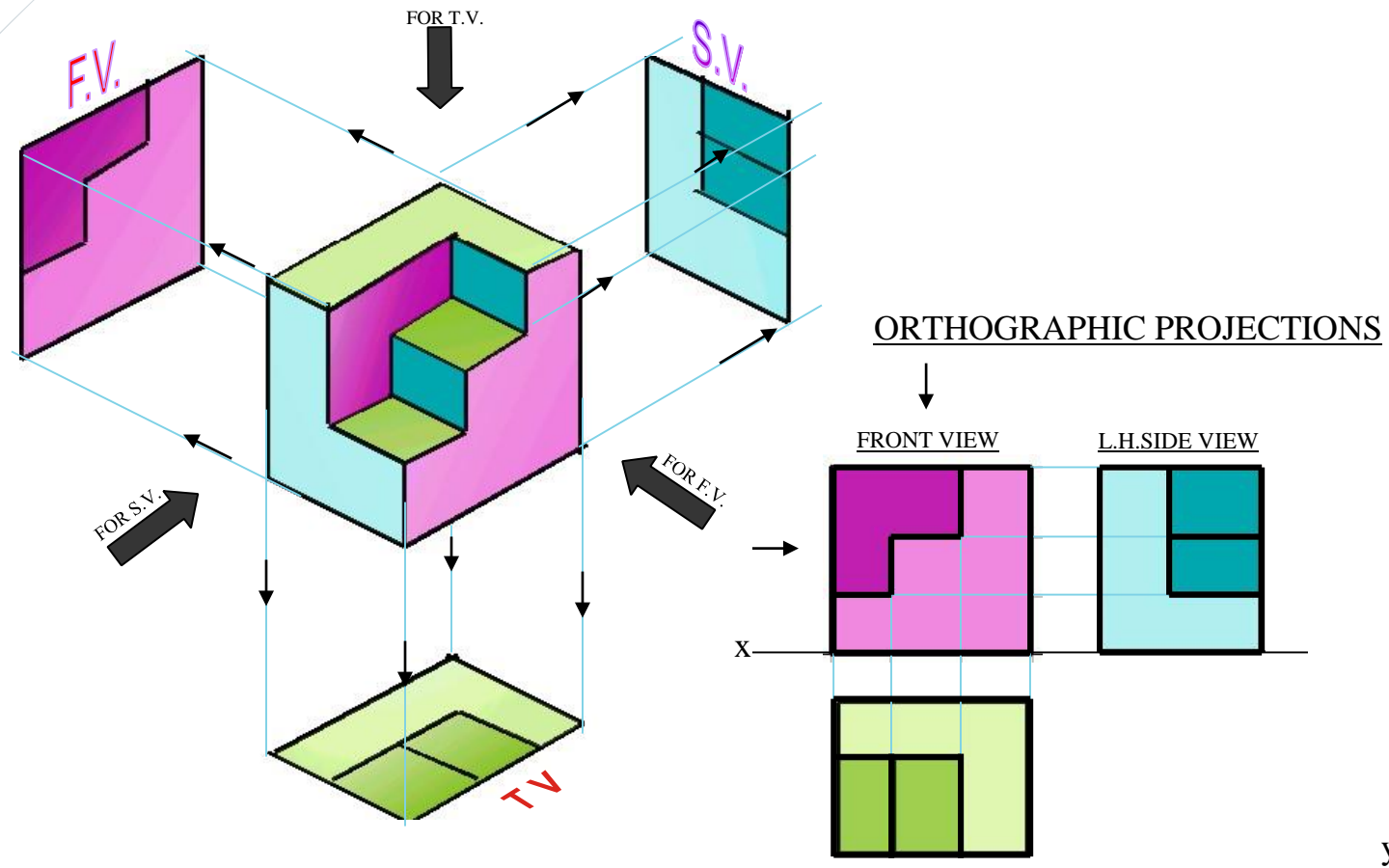
Isometric Block in 1st Angle Projections

Block in 3^d



Produce the Orthographic Views of the Isometric

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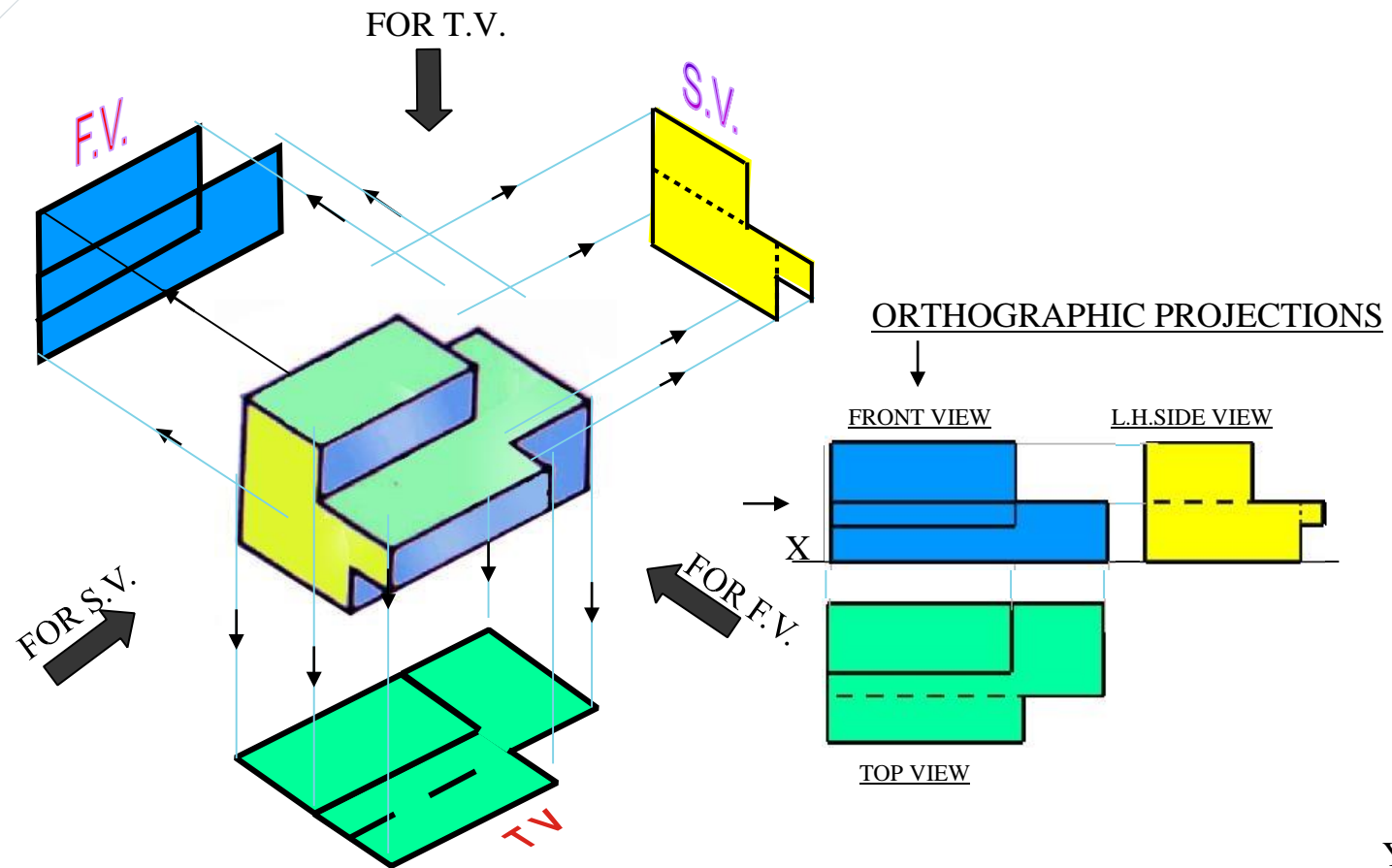


PICTORIAL PRESENTATION IS GIVEN

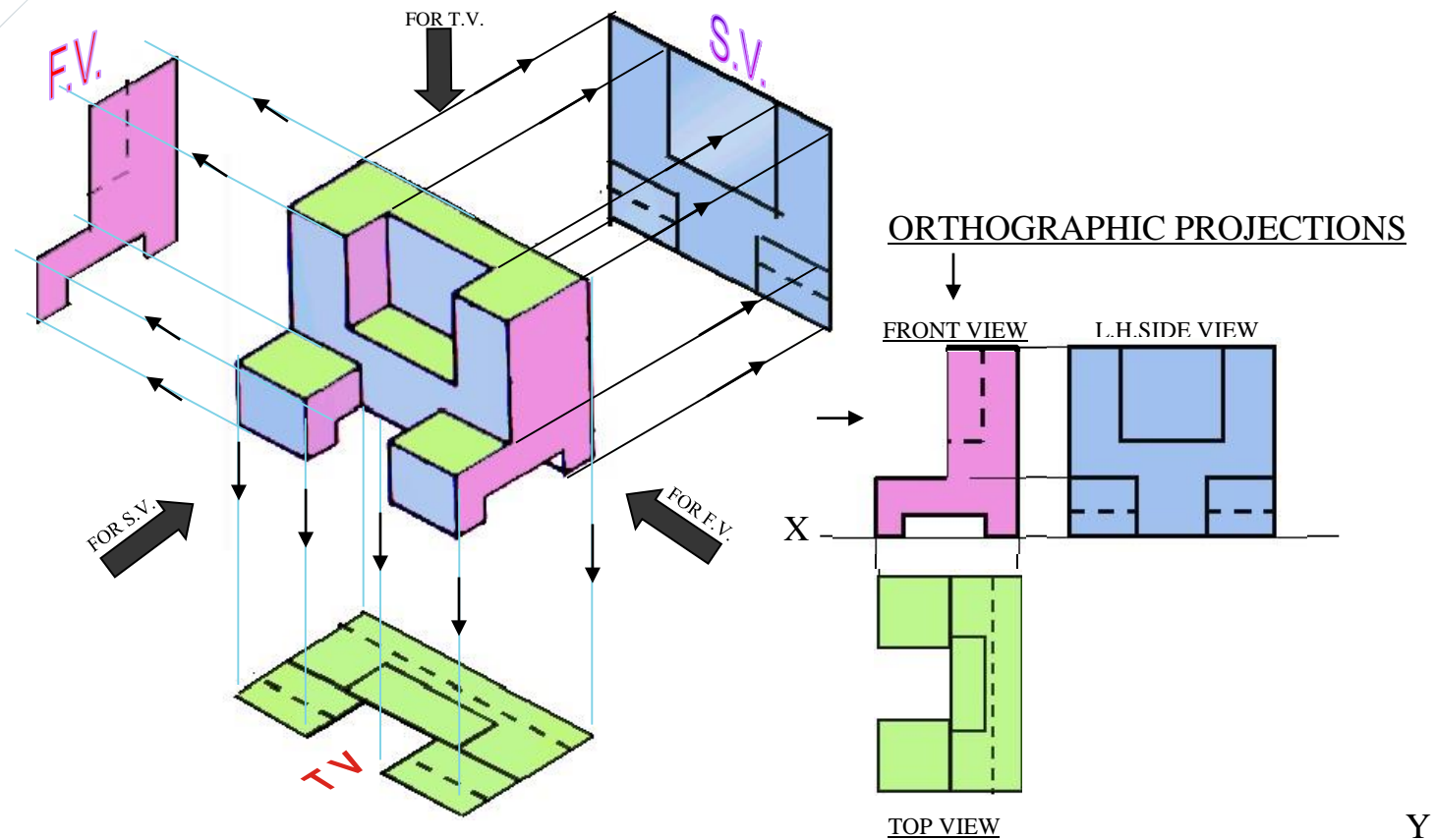
TOP VIEW

**DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD**



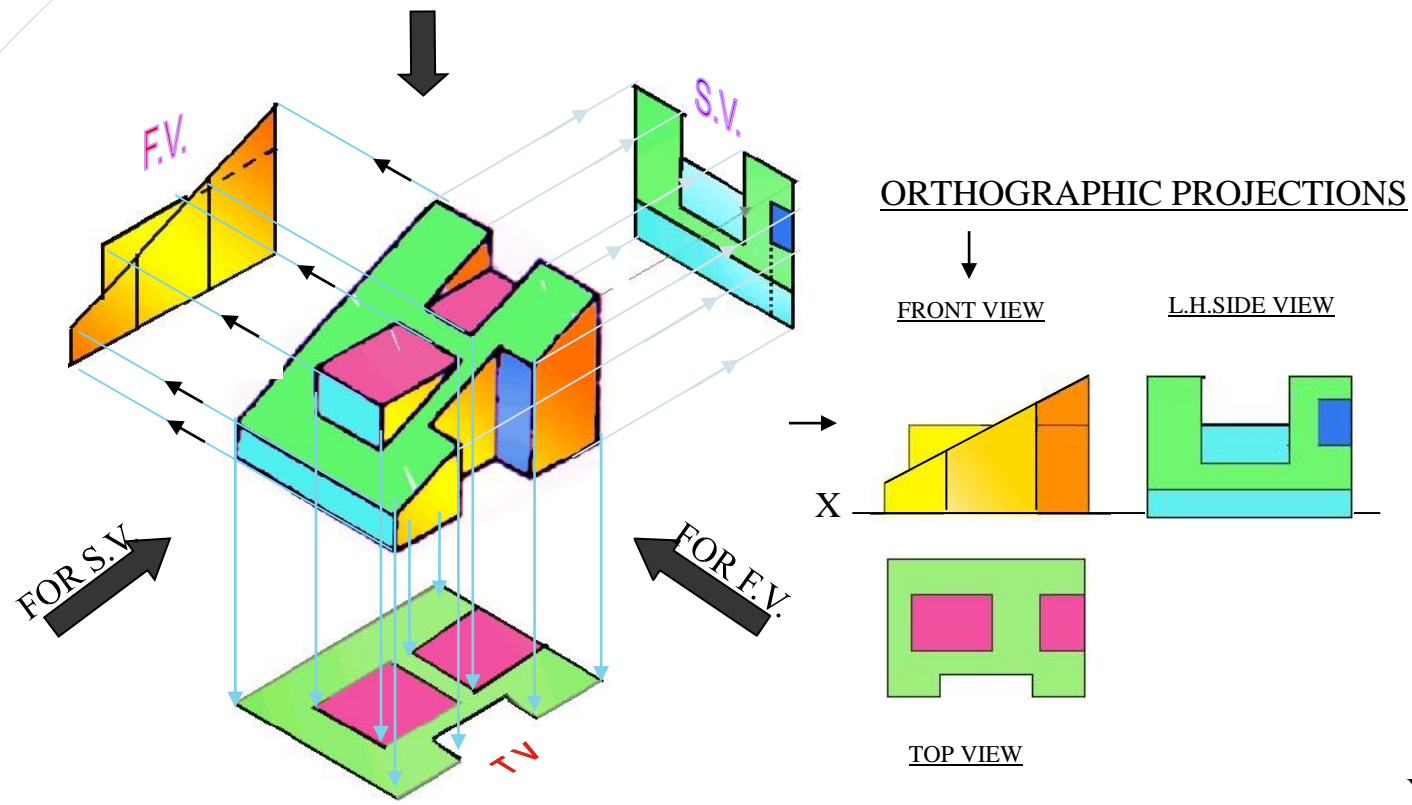


PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD

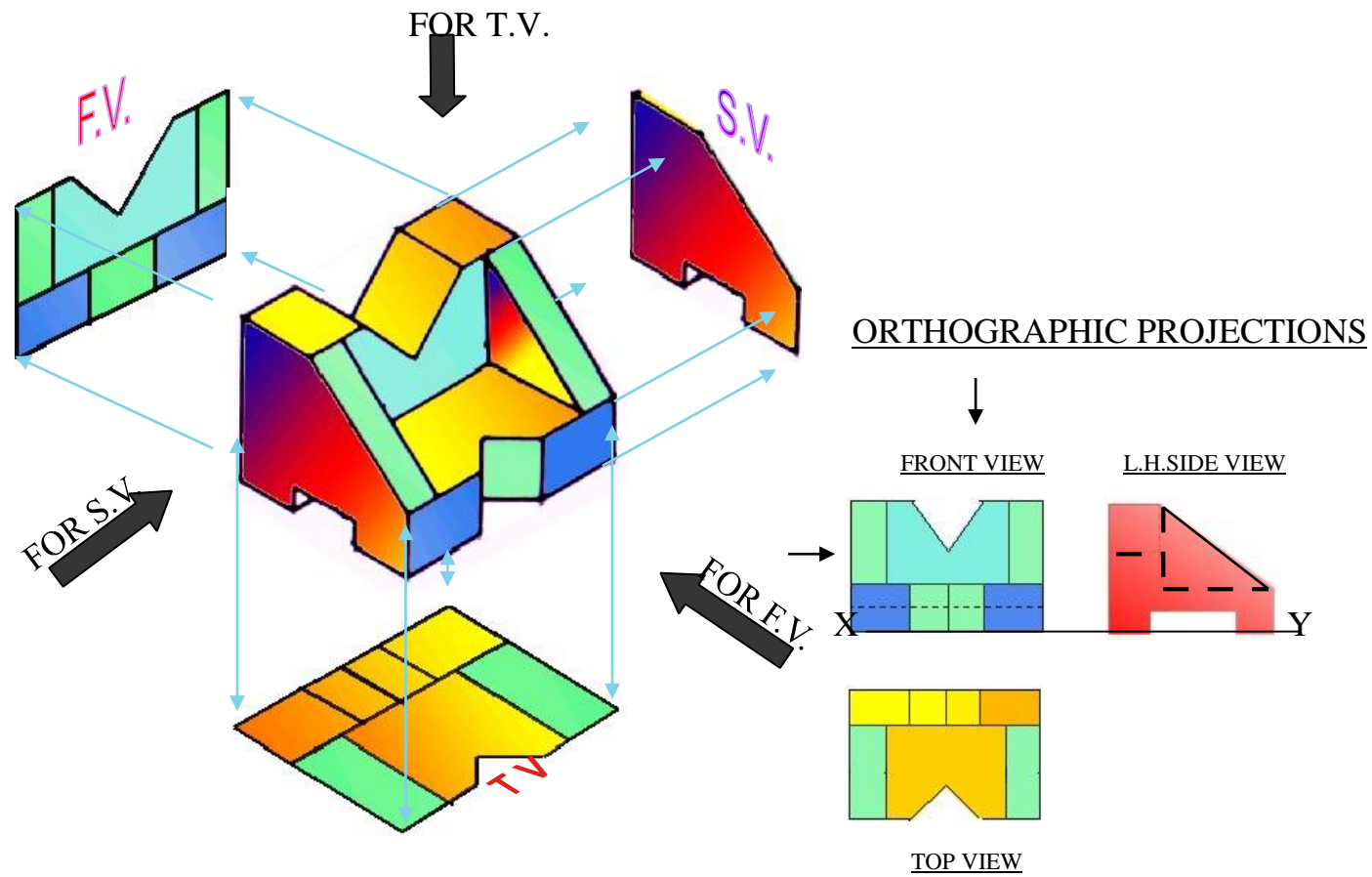


PICTORIAL PRESENTATION IS GIVEN

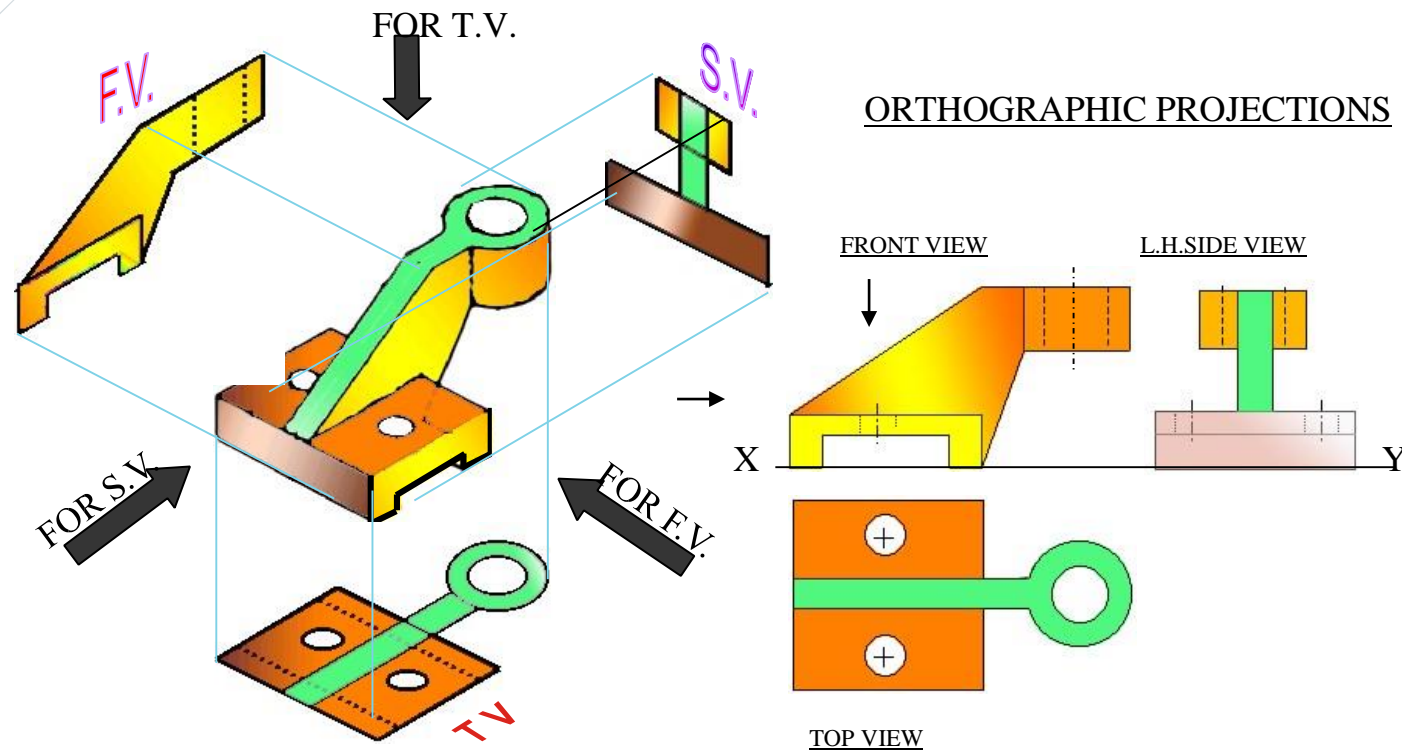
**DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD
FOR T.V.**



PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD

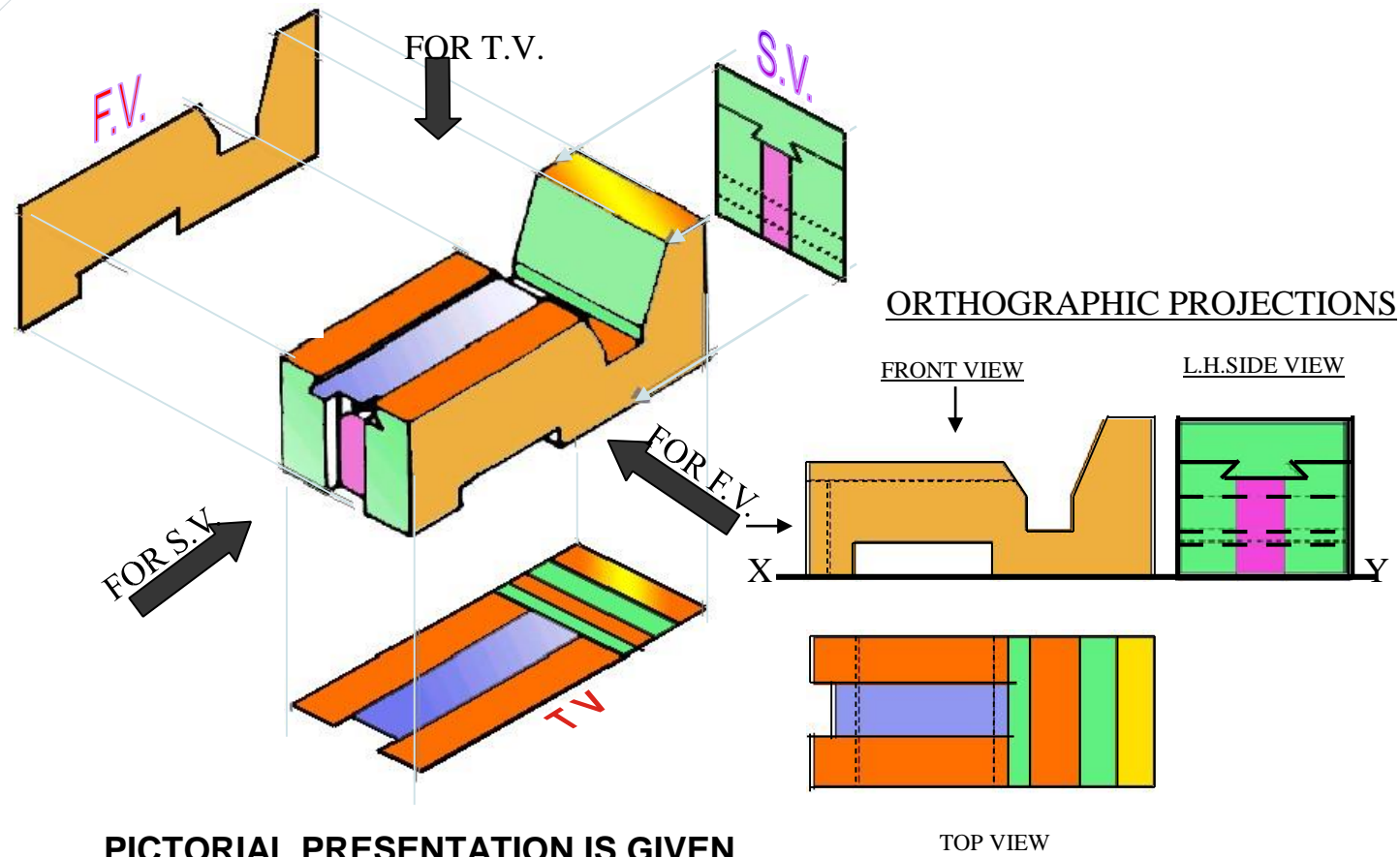


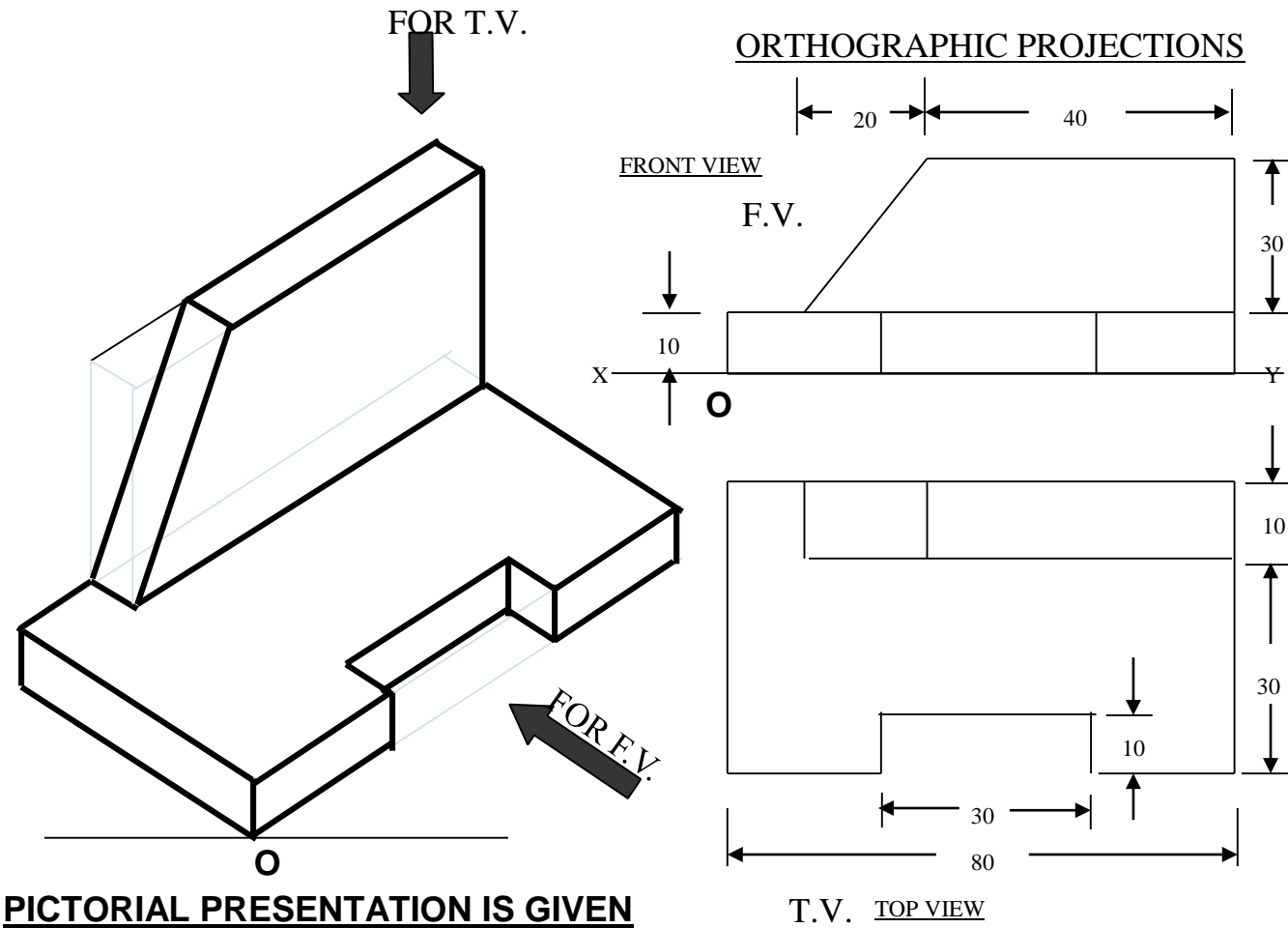
PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD



PICTORIAL PRESENTATION IS GIVEN

**DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD**





Produce the Isometric Block

