

# ORTHOGRAPHIC PROJECTION

## Instructions

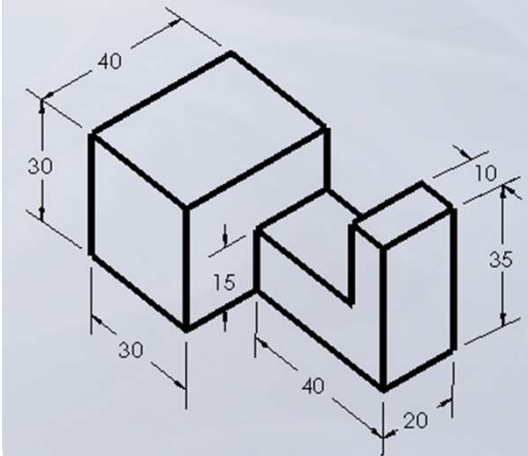
See the given isometric drawing  
See the sides of the object  
Decide the angle of projection

## Solution

See the Model

## Problem

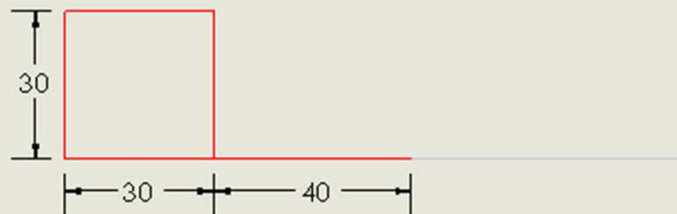
*Make orthographic drawing of the following pictorial drawing (Three views).*



# ORTHOGRAPHIC PROJECTION

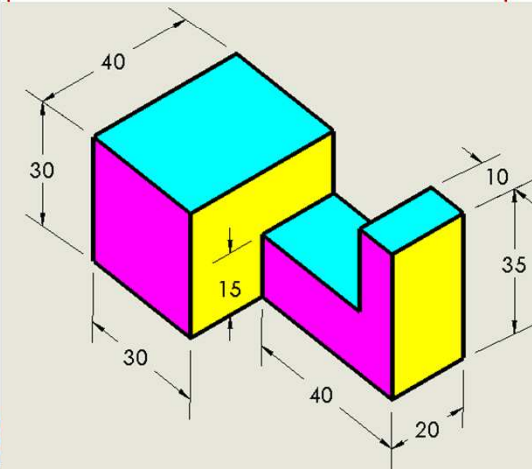
## Instructions

Make visible planes (Front View)



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).



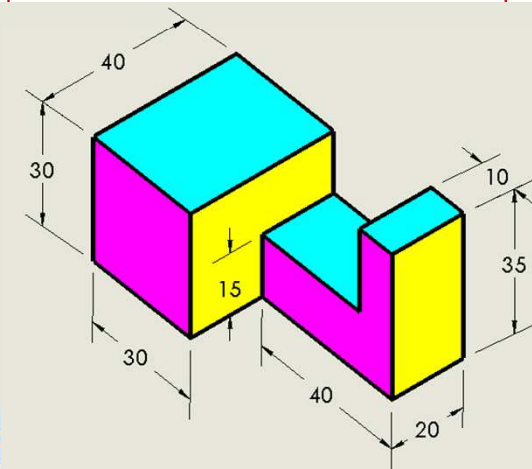
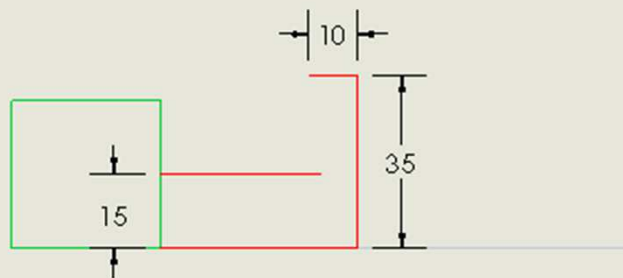
# ORTHOGRAPHIC PROJECTION

## Instructions

Make visible planes (Front View)

## Problem

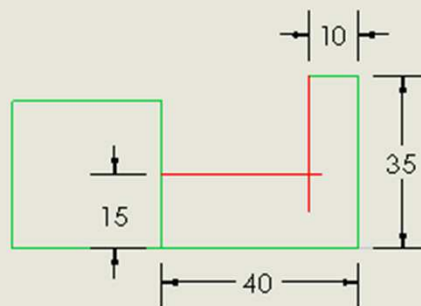
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

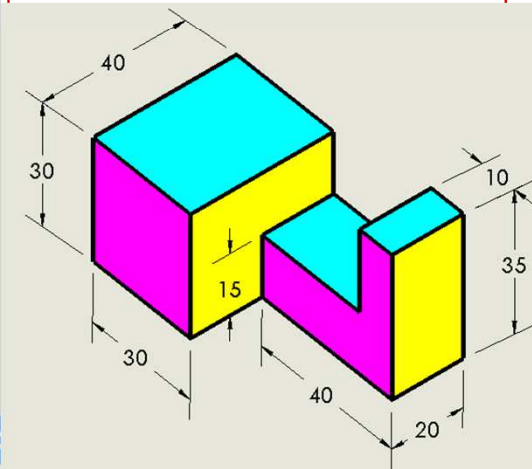
## Instructions

Make visible planes (Front View)  
Make projection to Top View



## Problem

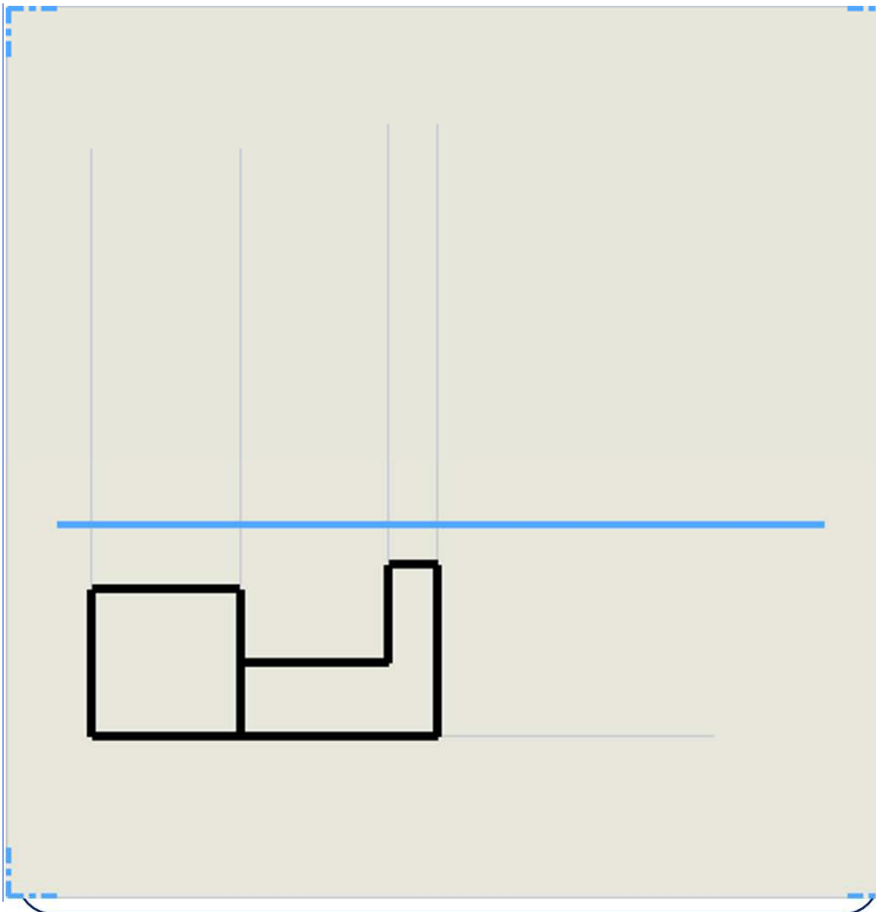
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

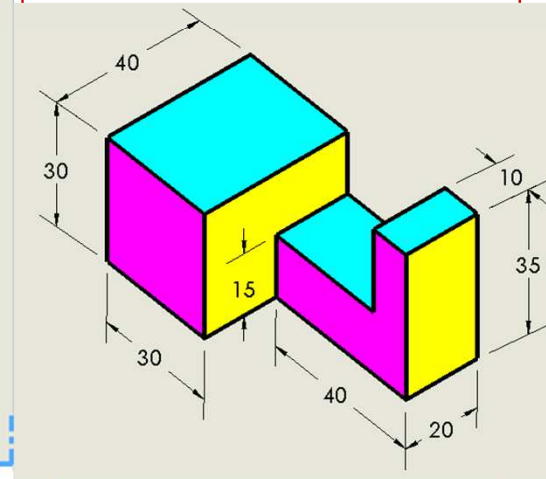
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)



## Problem

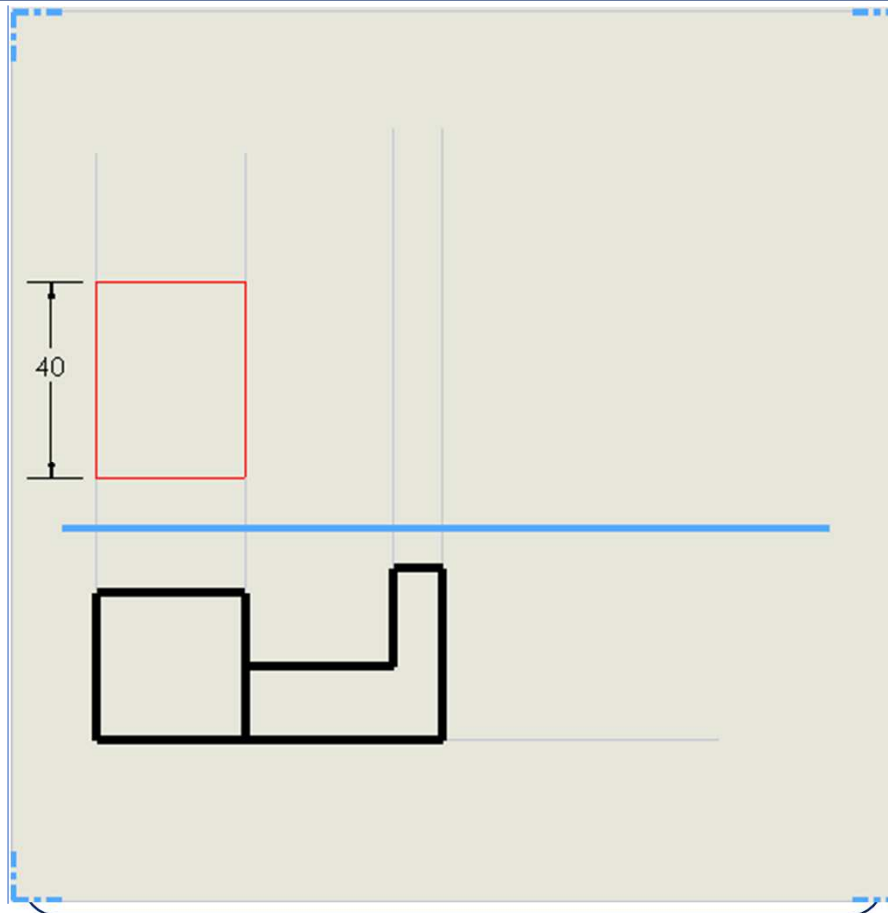
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

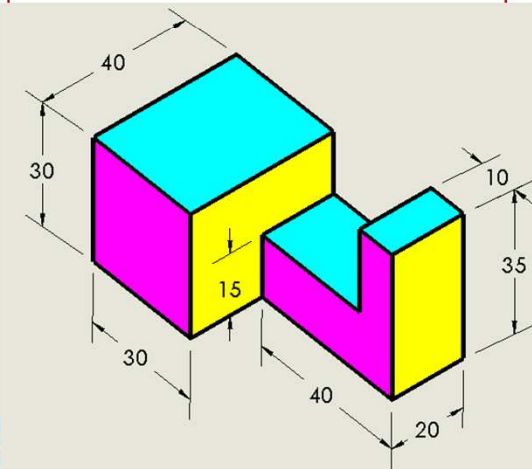
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)



## Problem

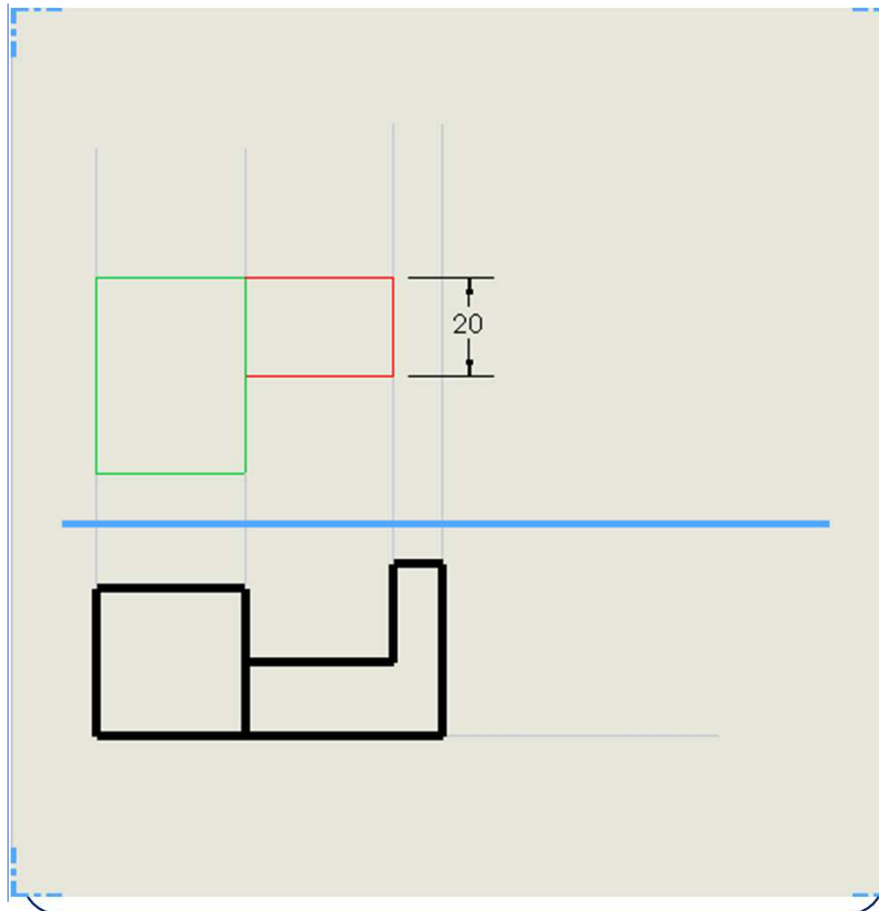
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

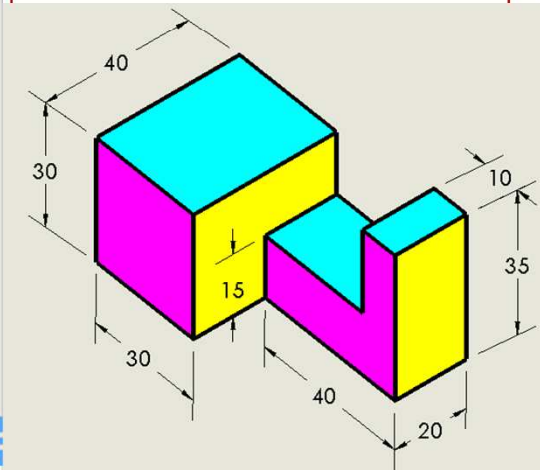
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)



## Problem

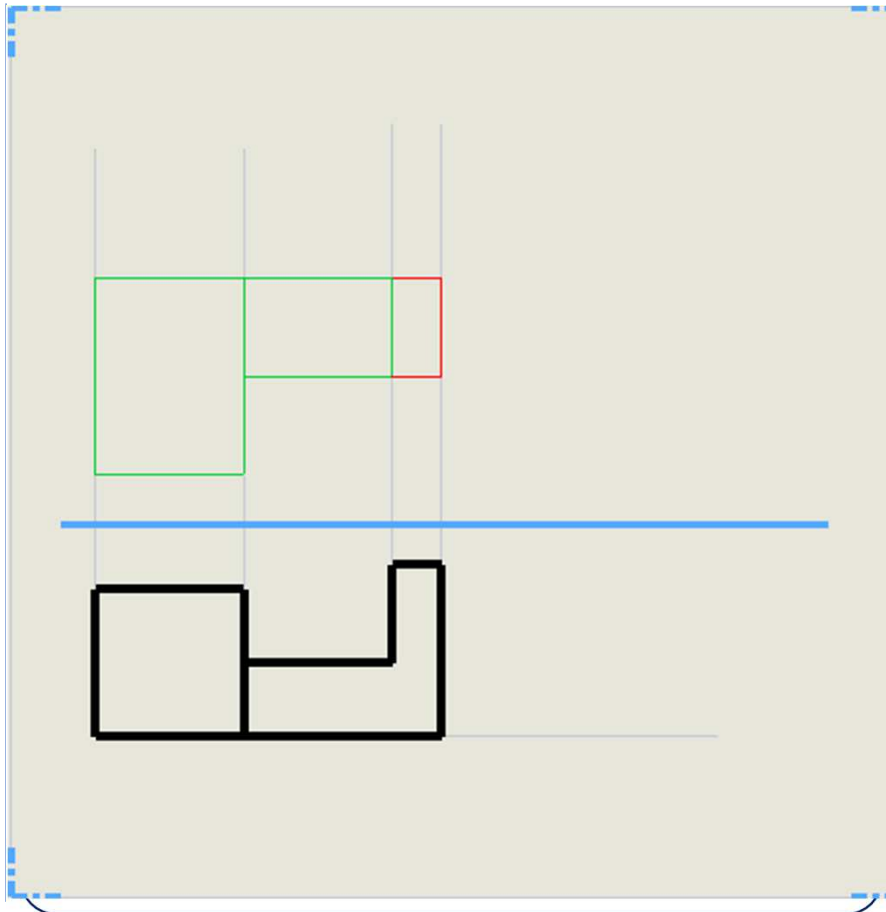
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

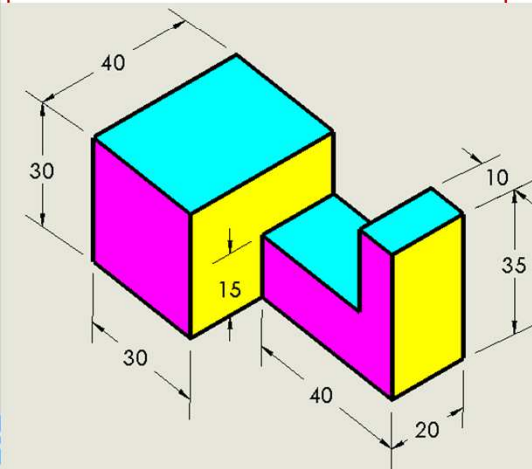
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

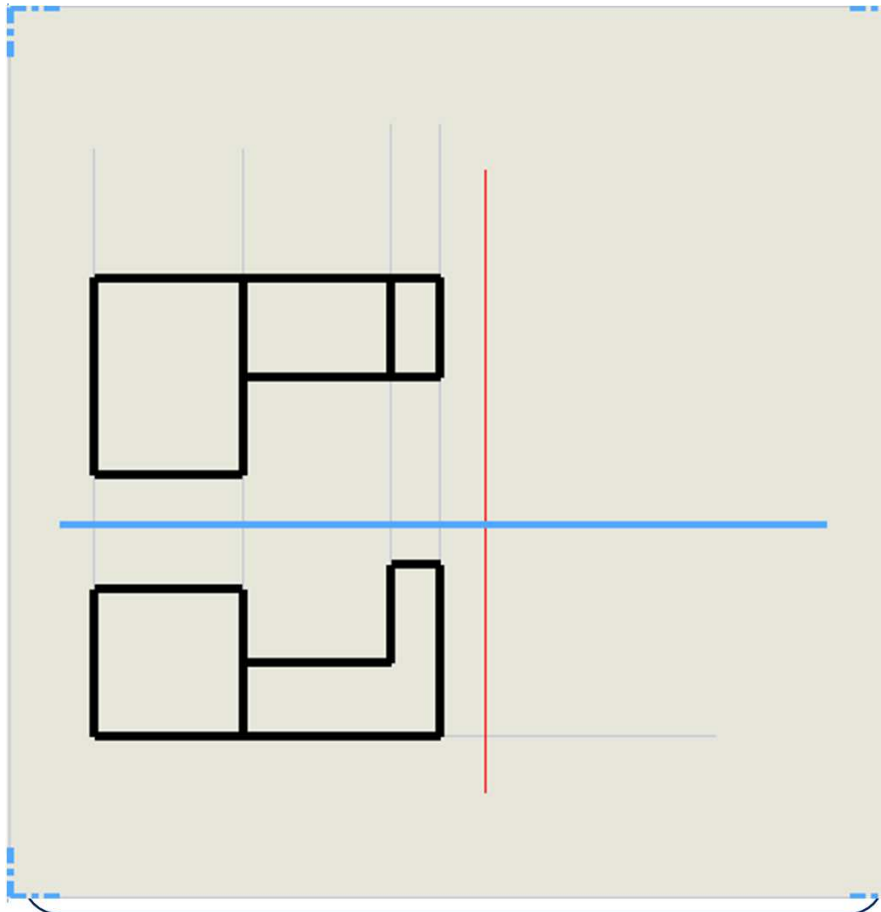




# ORTHOGRAPHIC PROJECTION

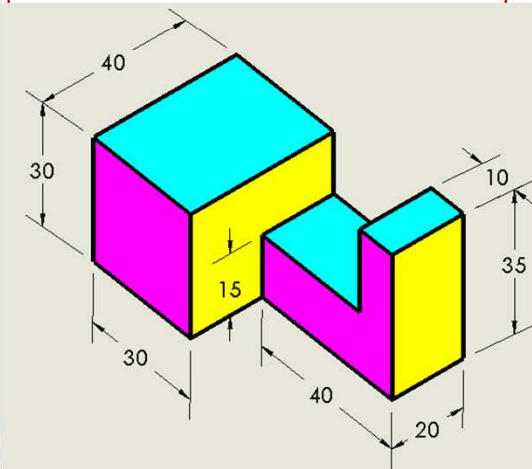
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)



## Problem

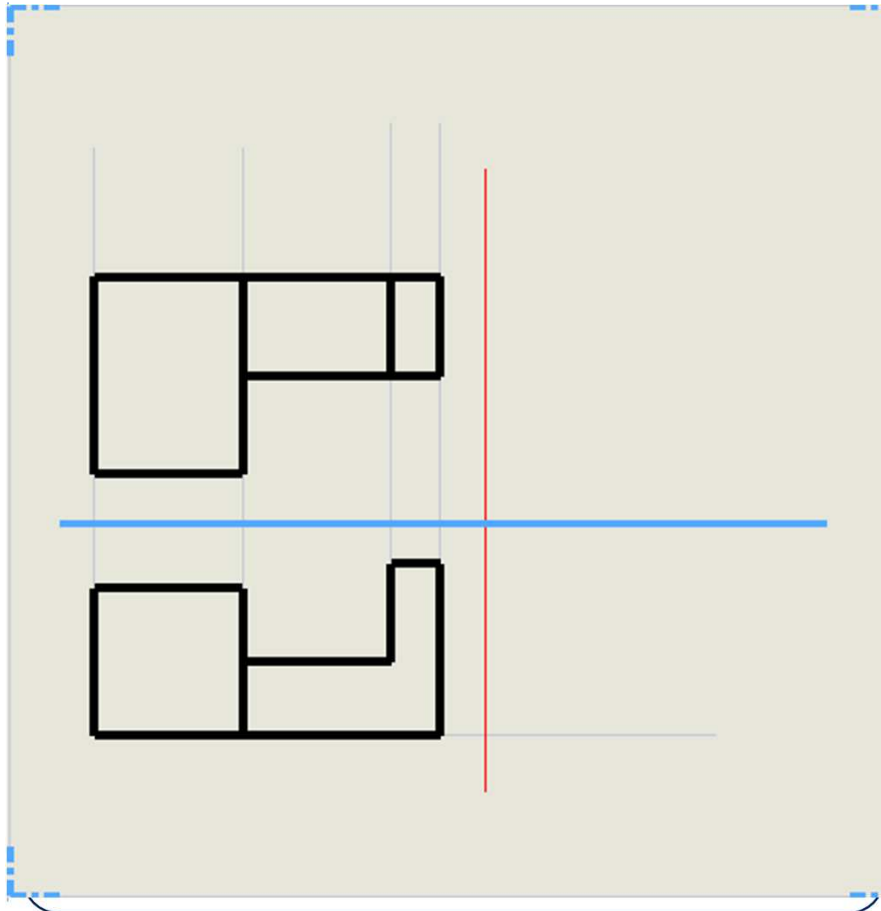
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

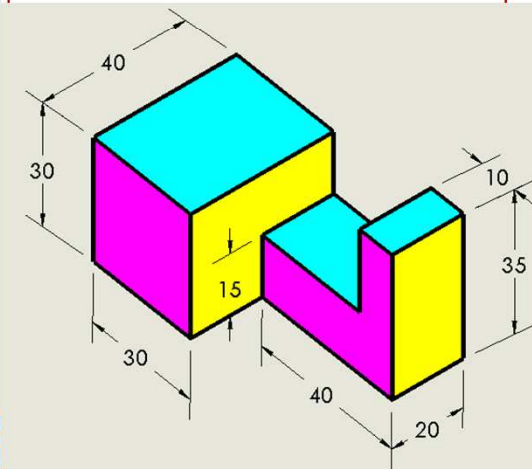
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the  
top view



## Problem

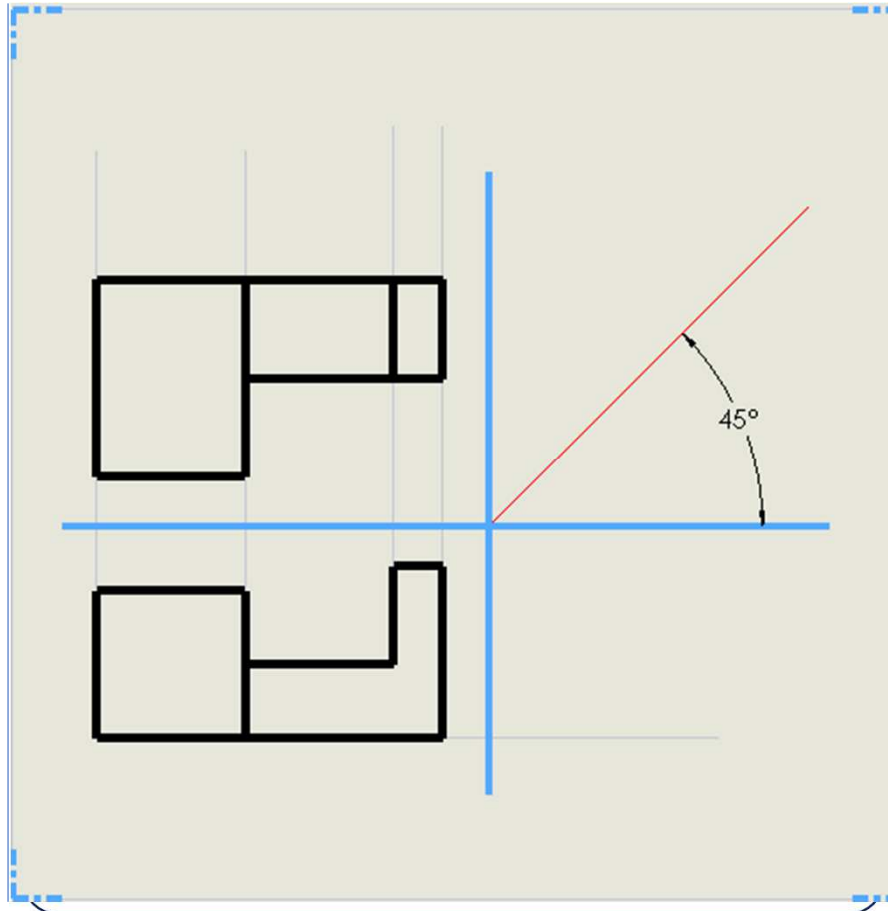
Make orthographic drawing  
of the following pictorial  
drawing (Three views).



# ORTHOGRAPHIC PROJECTION

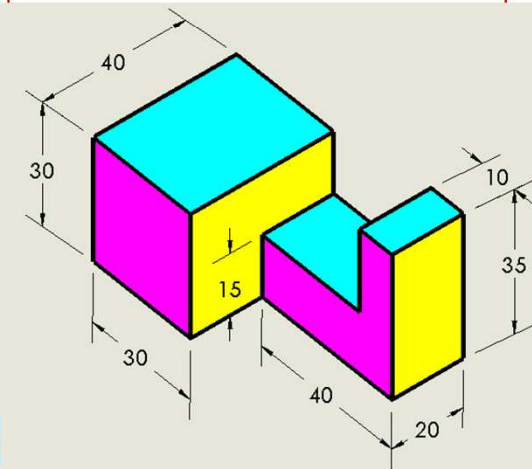
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

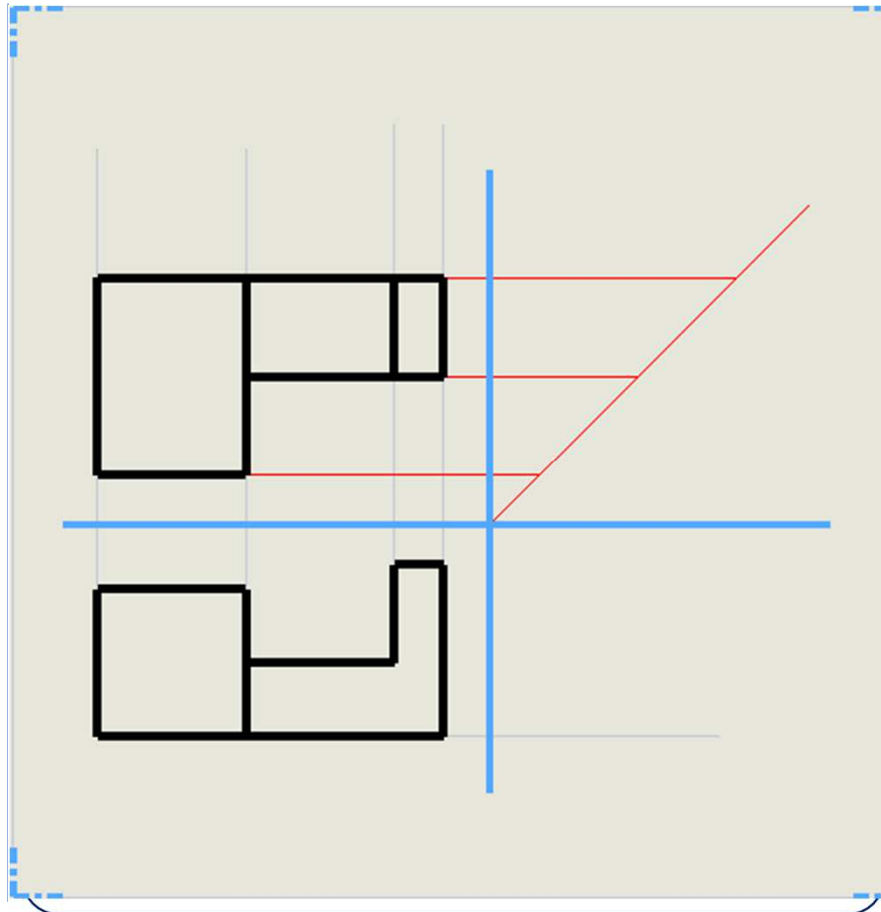


2B HB 2H 2H 2H  
■ ■ ■ ■ ■

# ORTHOGRAPHIC PROJECTION

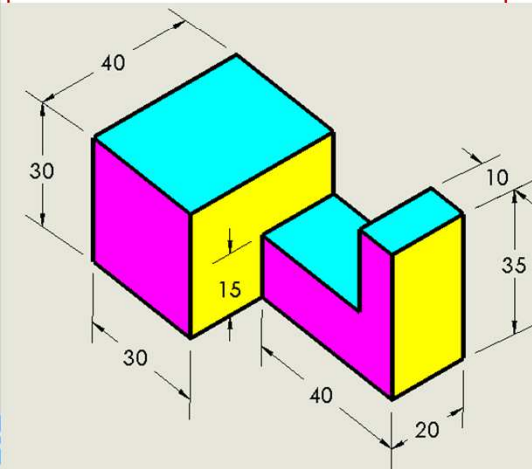
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

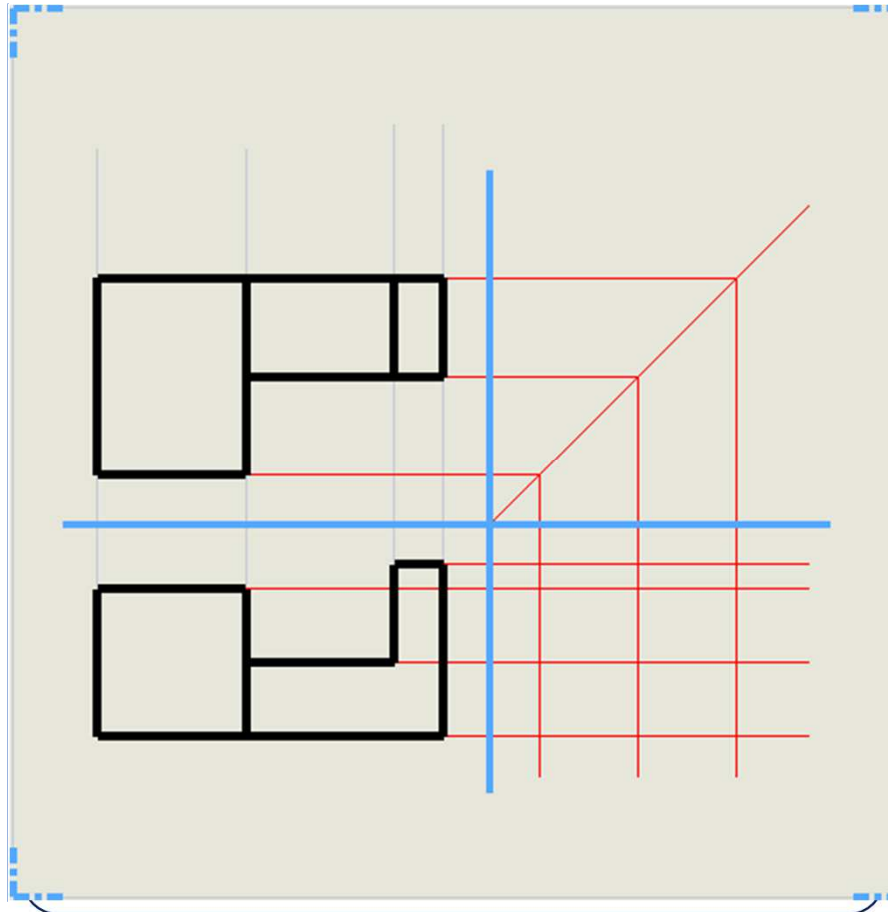


2B HB 2H 2H 2H  
■ ■ ■ ■ ■

# ORTHOGRAPHIC PROJECTION

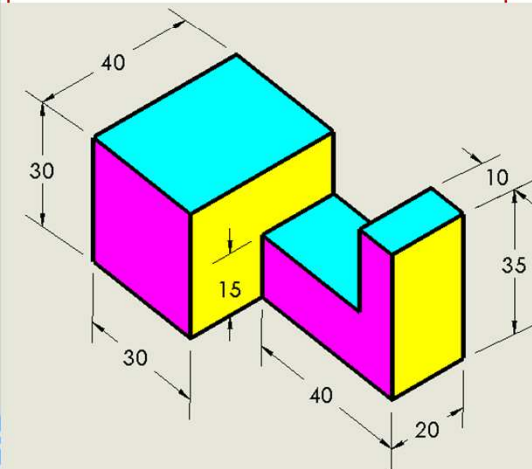
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

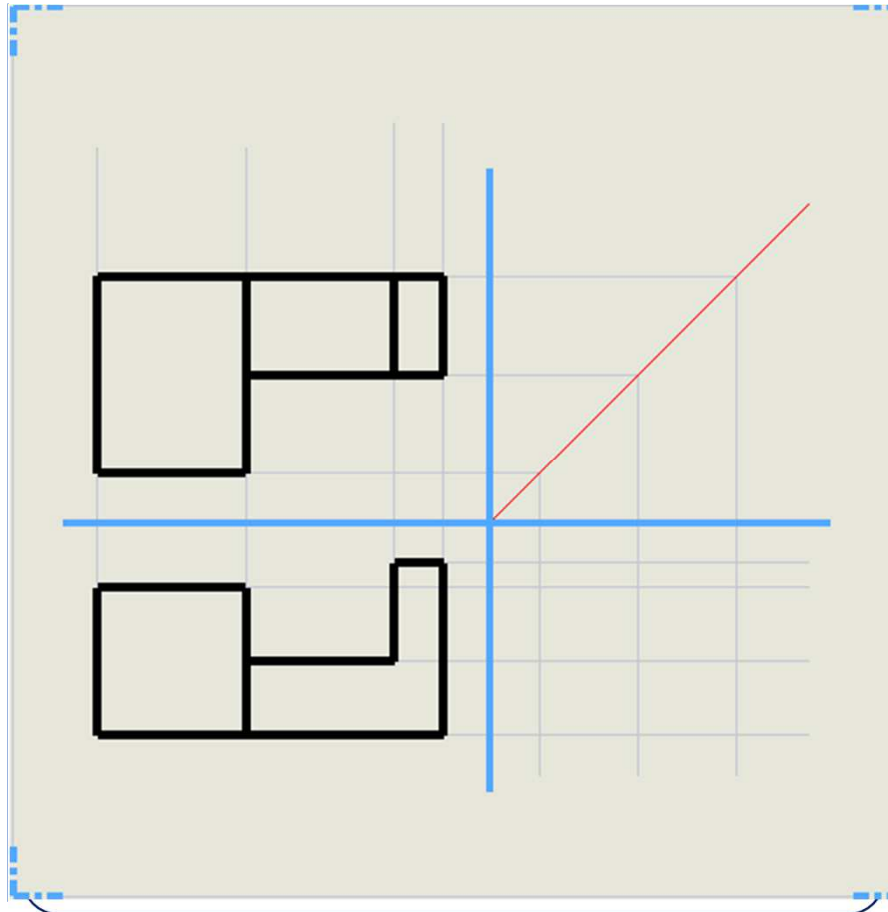


2B HB 2H 2H 2H  
■ ■ ■ ■ ■

# ORTHOGRAPHIC PROJECTION

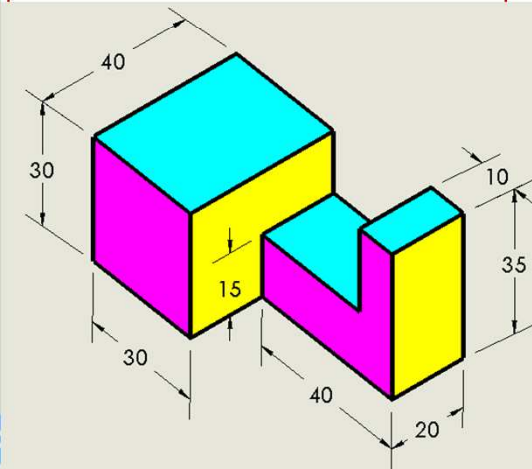
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View  
Make visible planes (Side View)



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

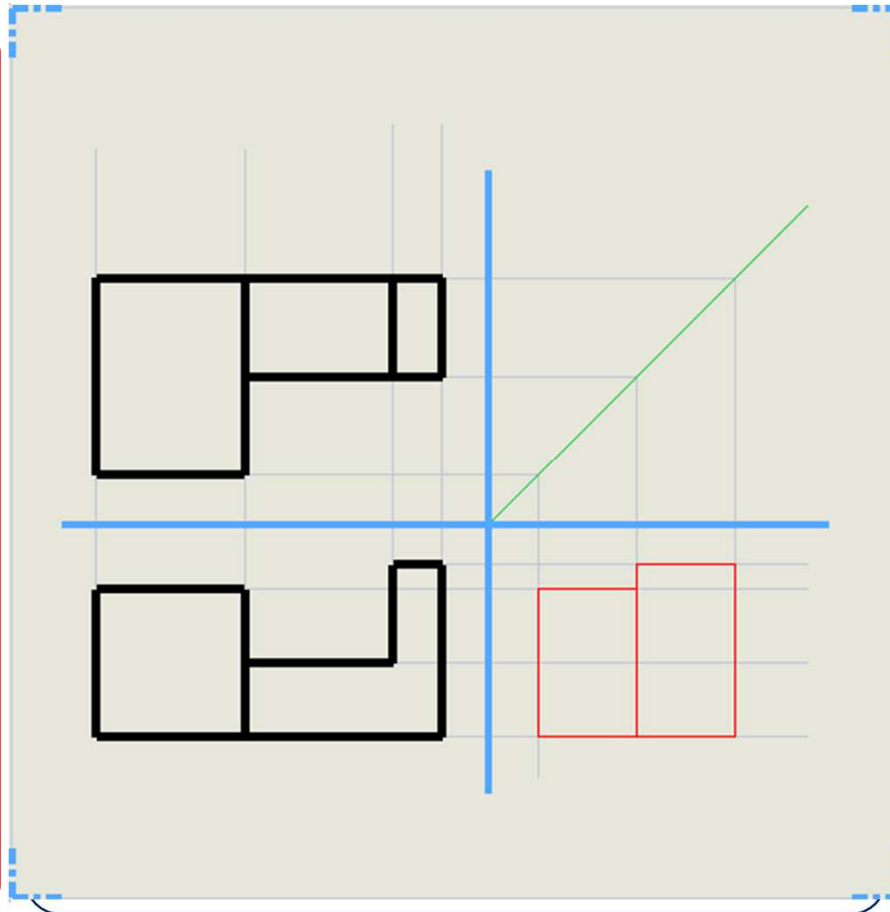


2B HB 2H 2H 2H  
■ ■ ■ ■ ■

# ORTHOGRAPHIC PROJECTION

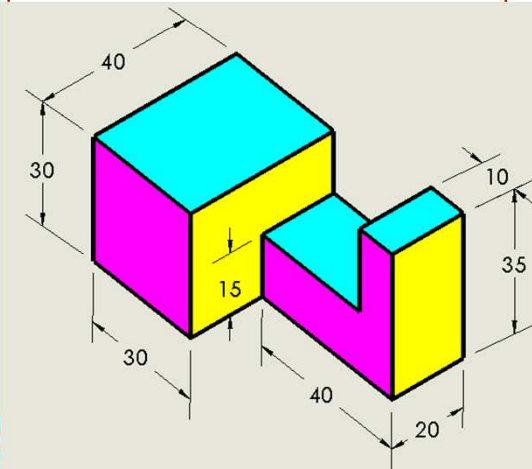
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View  
Make visible planes (Side View)



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

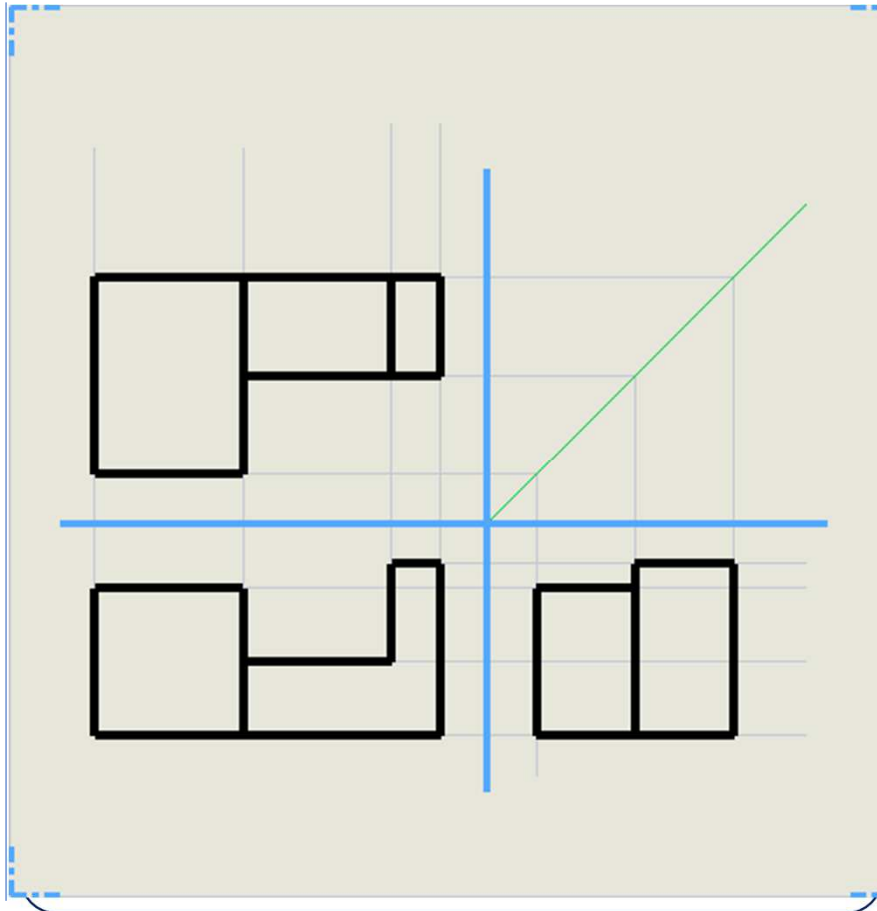


2B HB 2H 2H 2H  
■ ■ ■ ■ ■

# ORTHOGRAPHIC PROJECTION

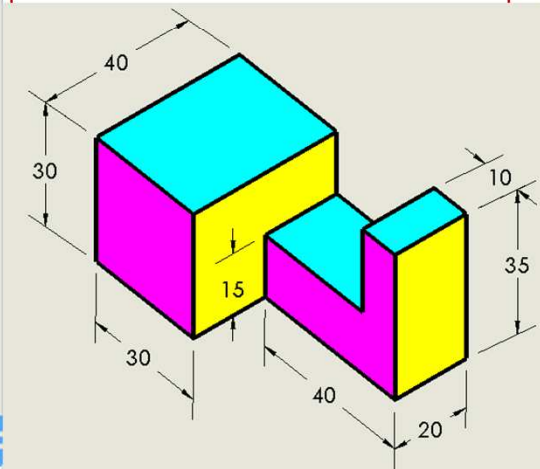
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View  
Make visible planes (Side View)  
Make hidden lines now



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).



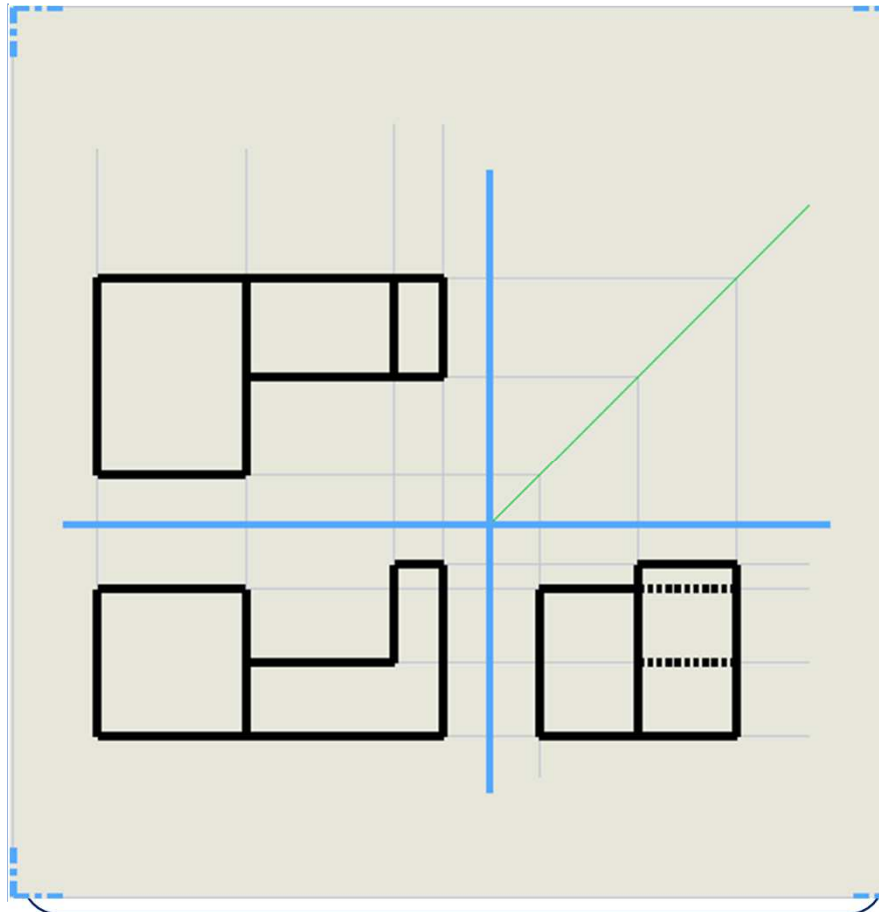
2B HB 2H 2H 2H  
■ ■ ■ ■ ■



# ORTHOGRAPHIC PROJECTION

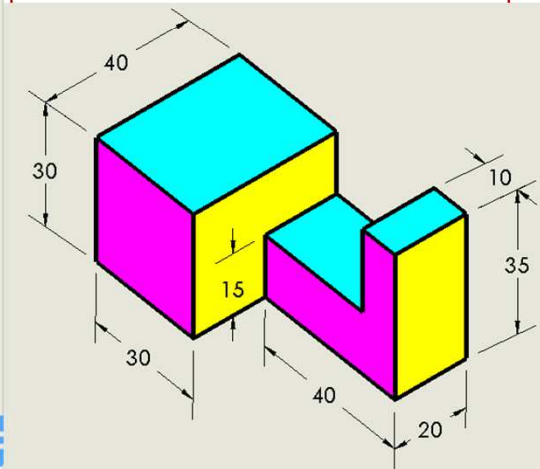
## Instructions

Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View  
Make visible planes (Side View)  
Make hidden lines now  
See all projection line if left to project  
Every projection line makes either visible or hidden line make it sure



## Problem

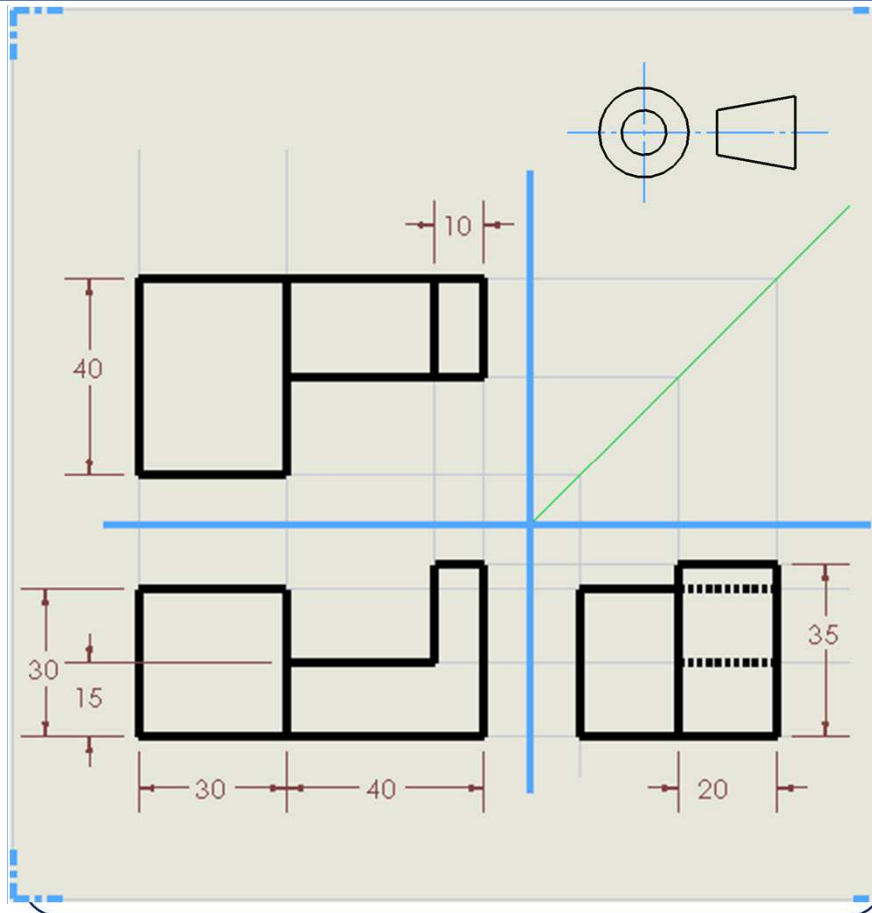
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

## Instructions

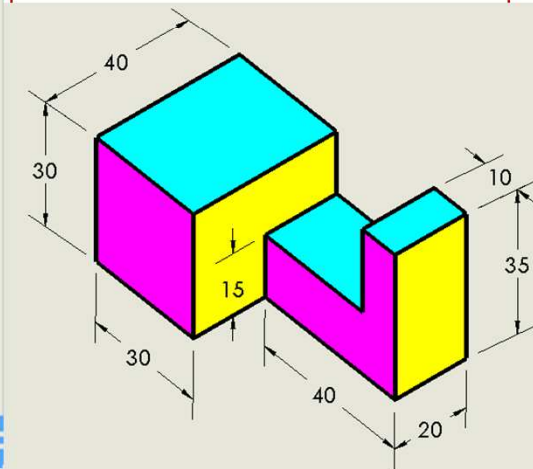
Make visible planes (Front View)  
Make projection to Top View  
Make visible planes (Top View)  
Make 45 degree line next to the top view  
Project each nodes of the Top View to make Side View  
Project each nodes of the Front View to make Side View  
Make visible planes (Side View)  
Make hidden lines now  
See all projection line if left to project  
Every projection line makes either visible or hidden line make it sure  
Dimension the figure and make projection symbol



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).

Model



# ORTHOGRAPHIC PROJECTION

## Instructions

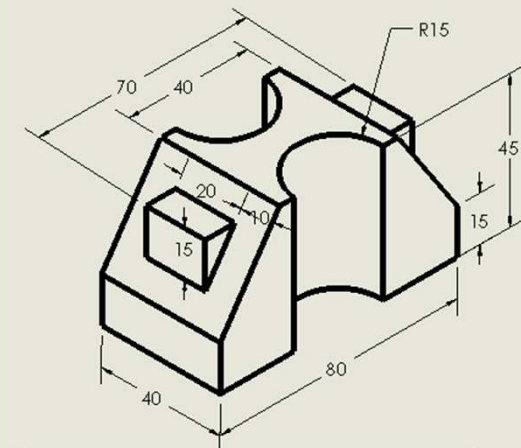
See the figure find Front side  
Decide the projection angle

## Solution

See the Model

## Problem

*Make orthographic drawing of the following pictorial drawing (Three views).*



# ORTHOGRAPHIC PROJECTION

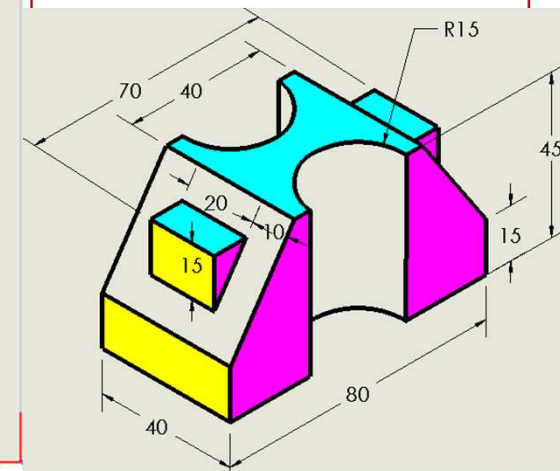
## Instructions

Make visible planes (Front View)



## Problem

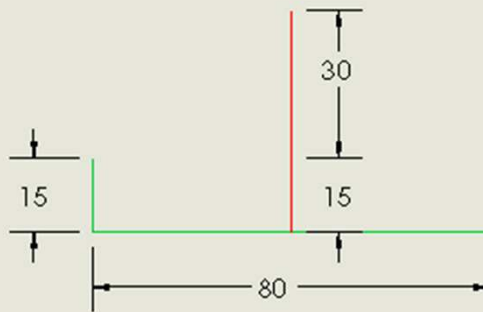
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

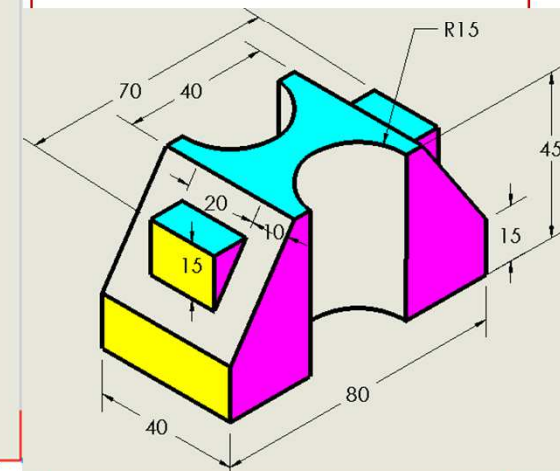
## Instructions

Make visible planes (Front View)



## Problem

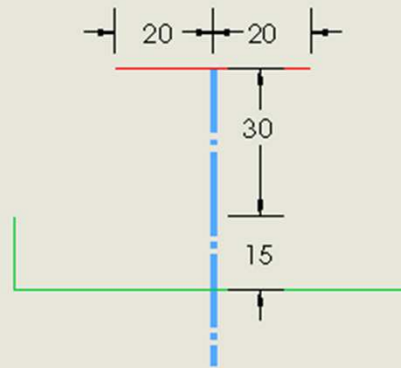
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

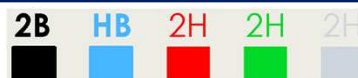
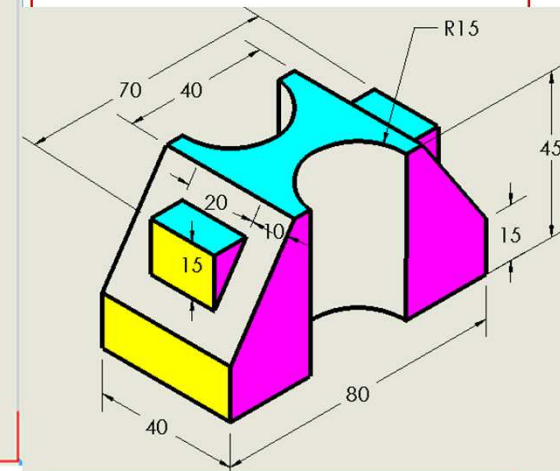
## Instructions

Make visible planes (Front View)



## Problem

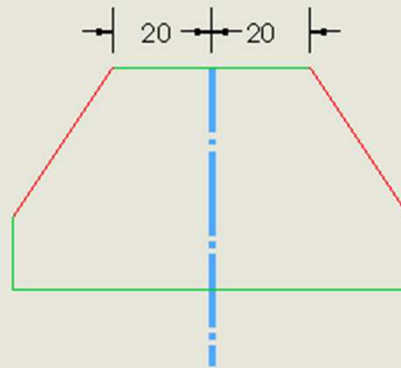
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

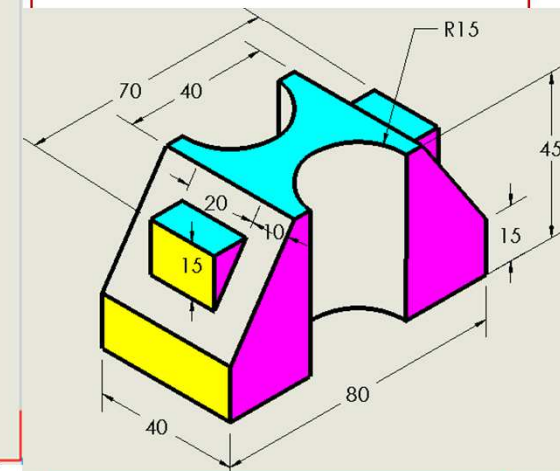
## Instructions

Make visible planes (Front View)  
Make projection from each node for  
Top View



## Problem

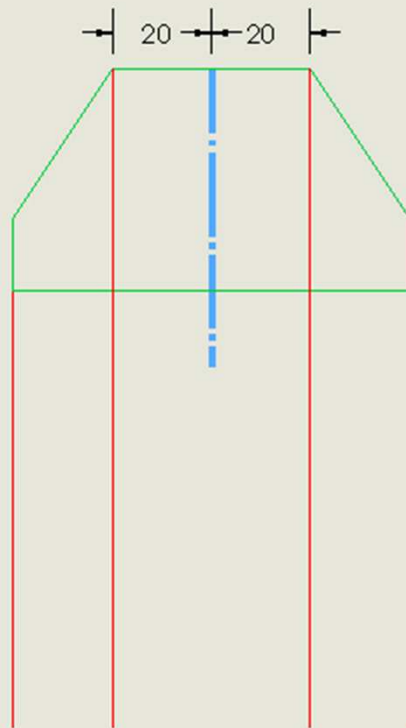
Make orthographic drawing  
of the following pictorial  
drawing (Three views).



# ORTHOGRAPHIC PROJECTION

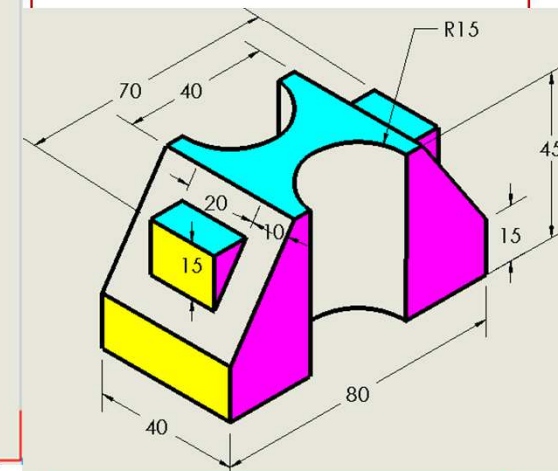
## Instructions

Make visible planes (Front View)  
Make projection from each node for  
Top View  
Make visible planes (Top View)



## Problem

Make orthographic drawing  
of the following pictorial  
drawing (Three views).

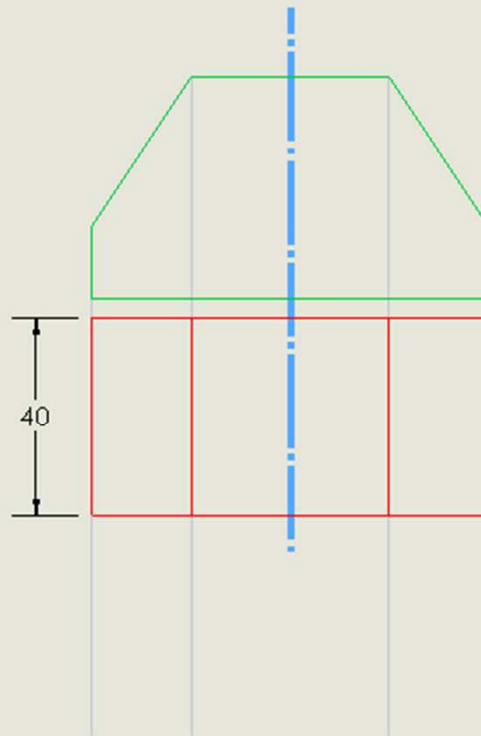




# ORTHOGRAPHIC PROJECTION

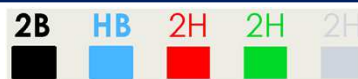
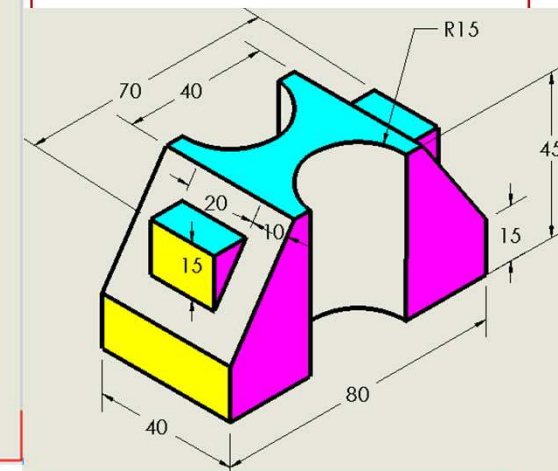
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

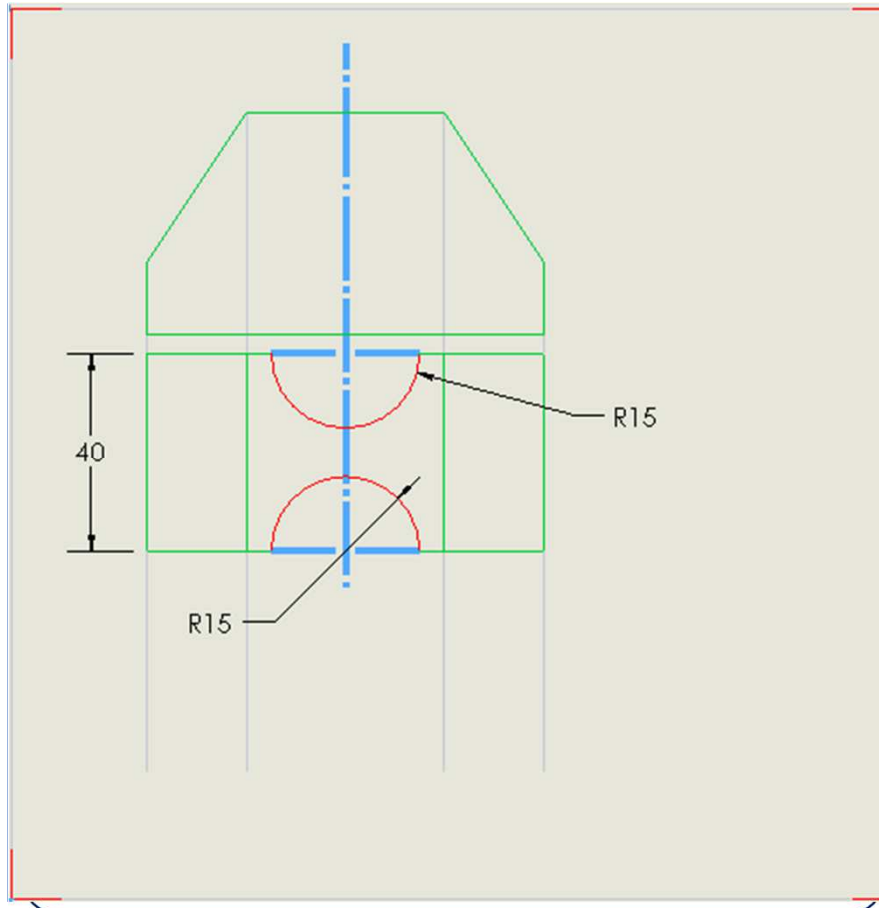
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

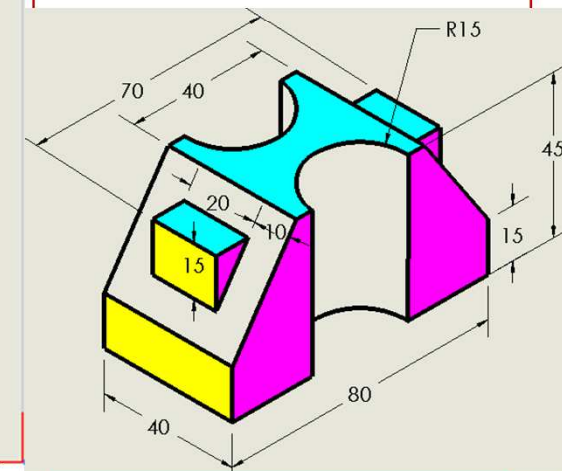
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

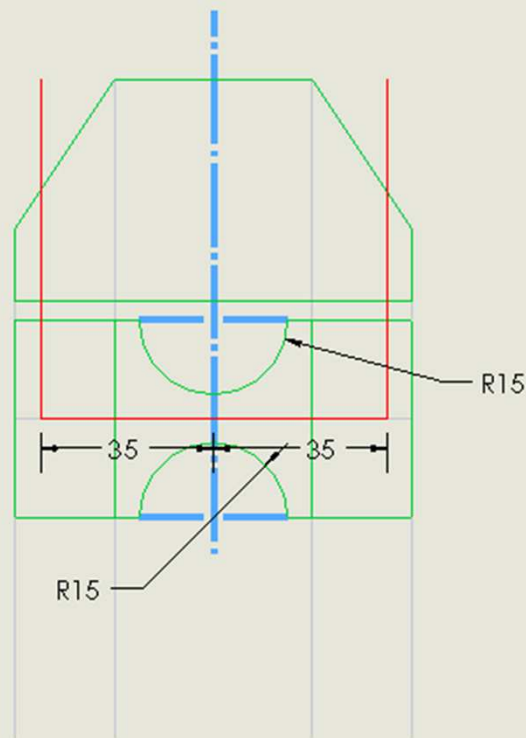
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

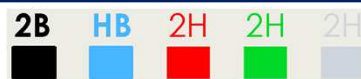
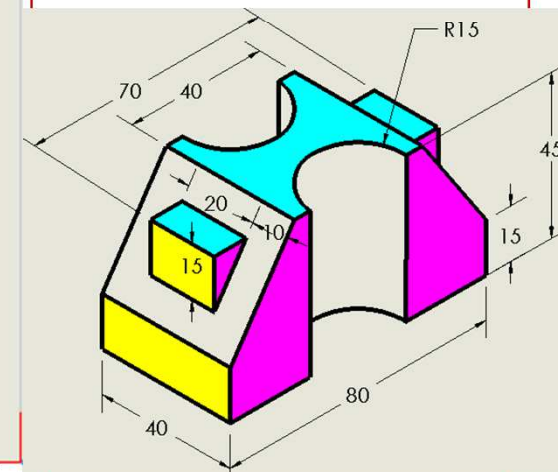
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

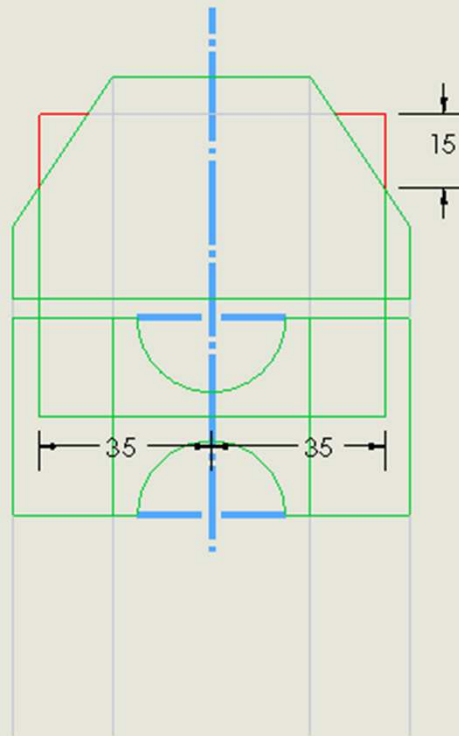
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

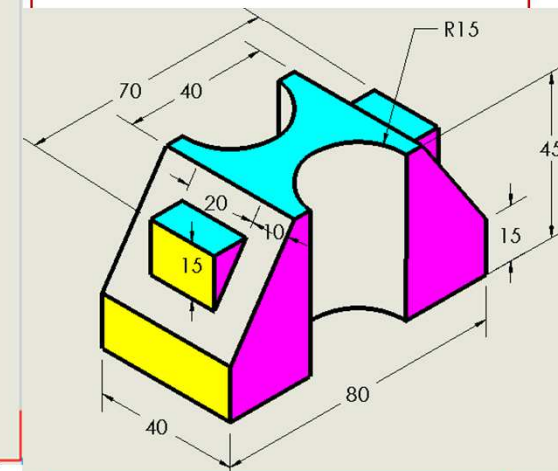
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

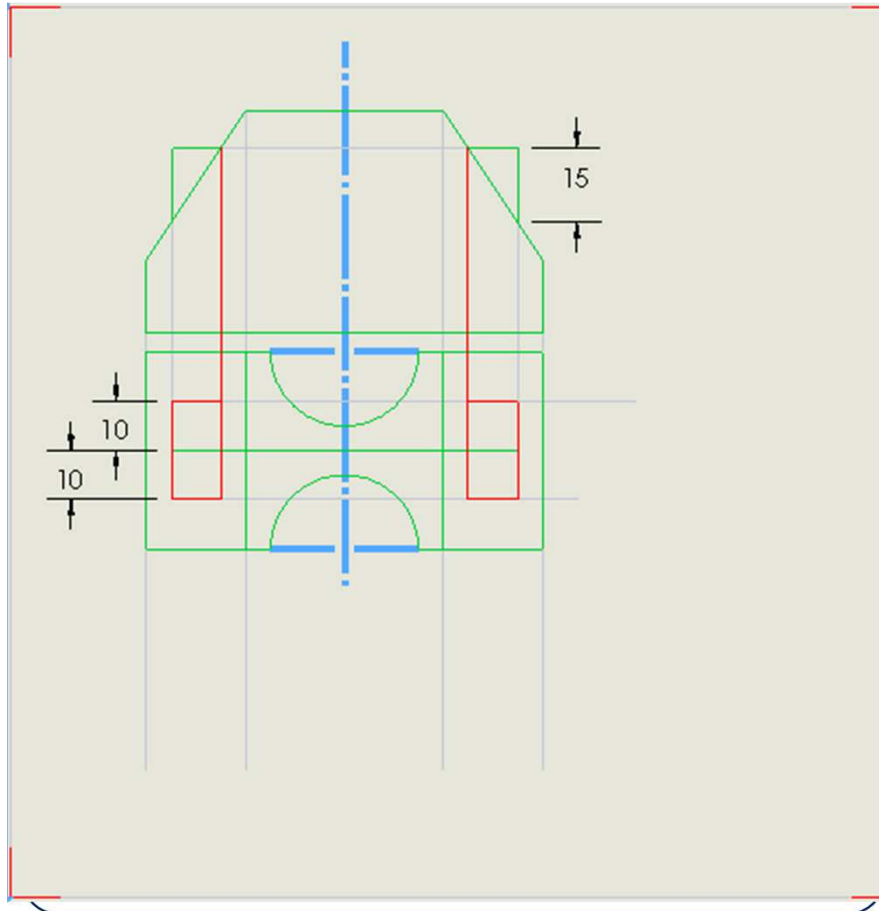
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

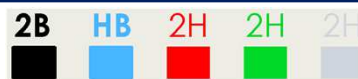
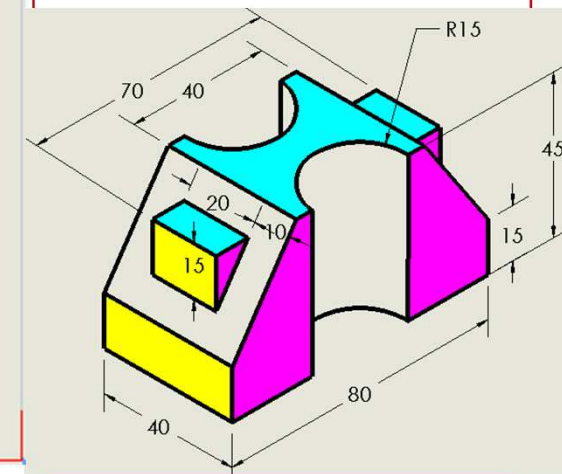
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

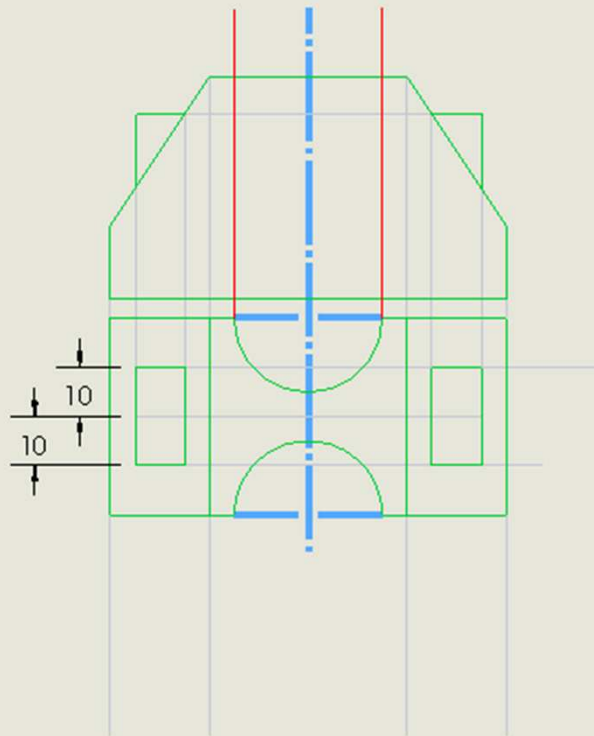
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

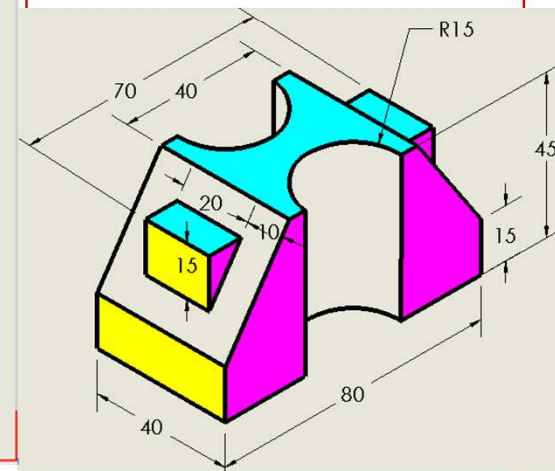
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

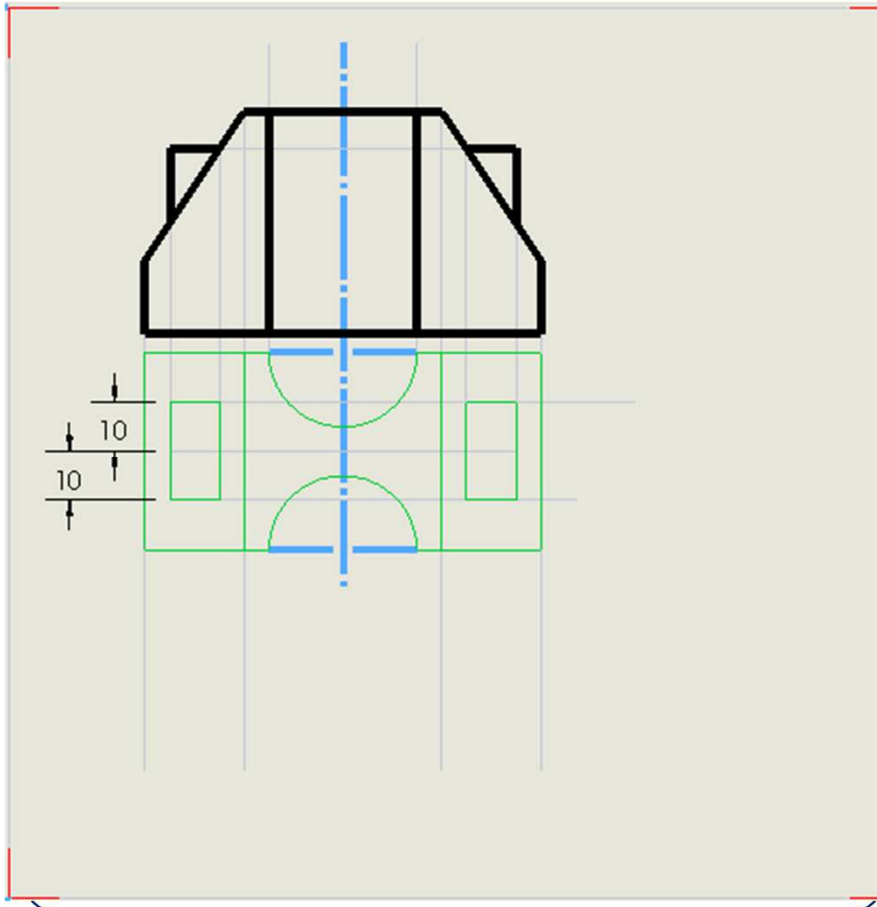
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

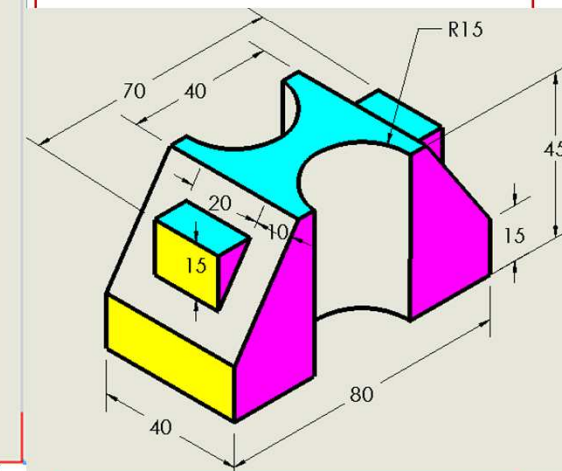
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)



## Problem

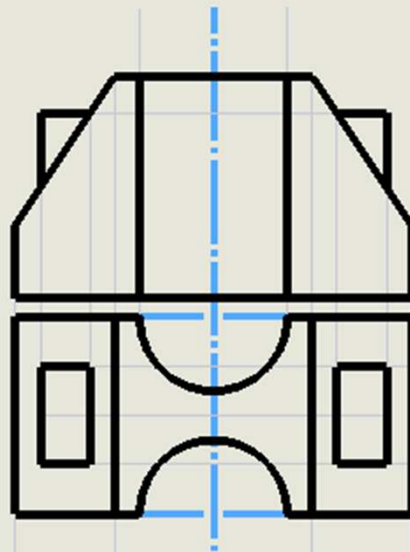
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

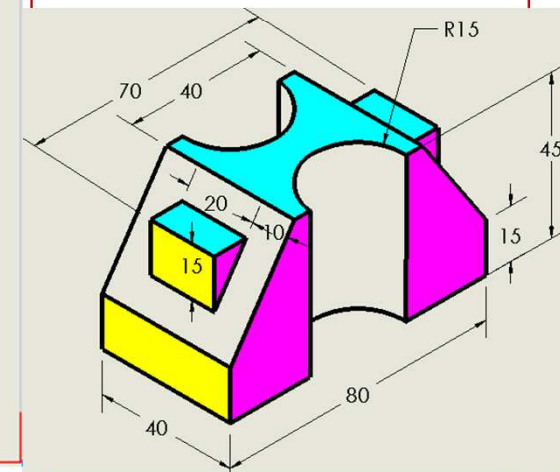
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view



## Problem

Make orthographic drawing of the following pictorial drawing (Three views).



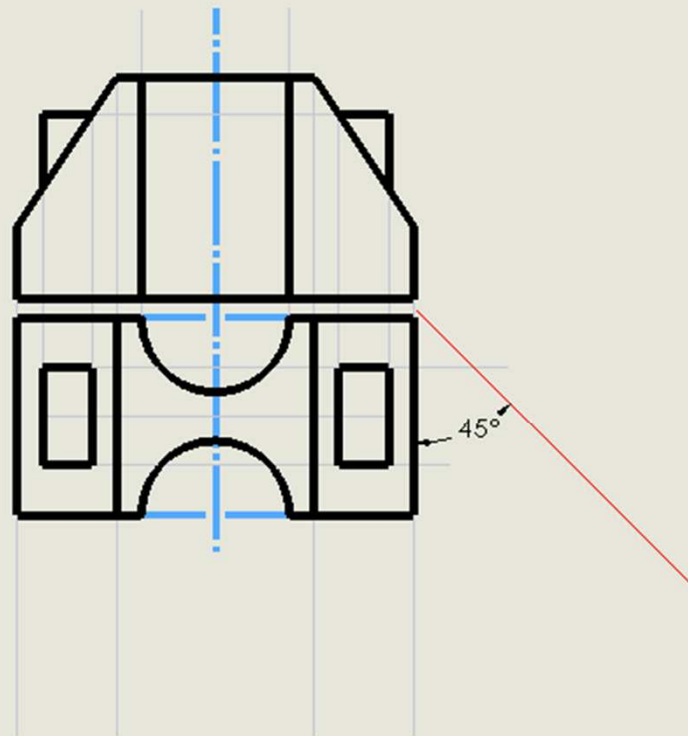
2B HB 2H 2H 2H



# ORTHOGRAPHIC PROJECTION

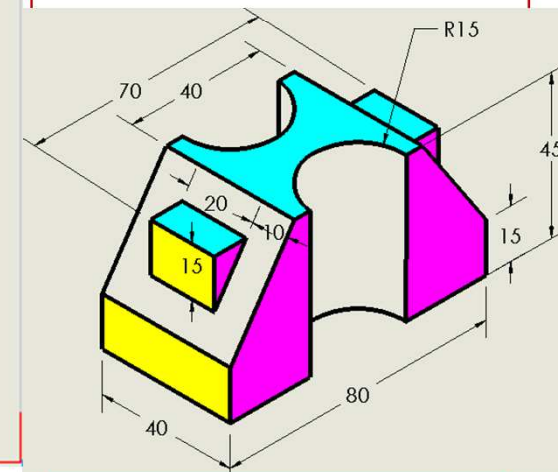
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV



## Problem

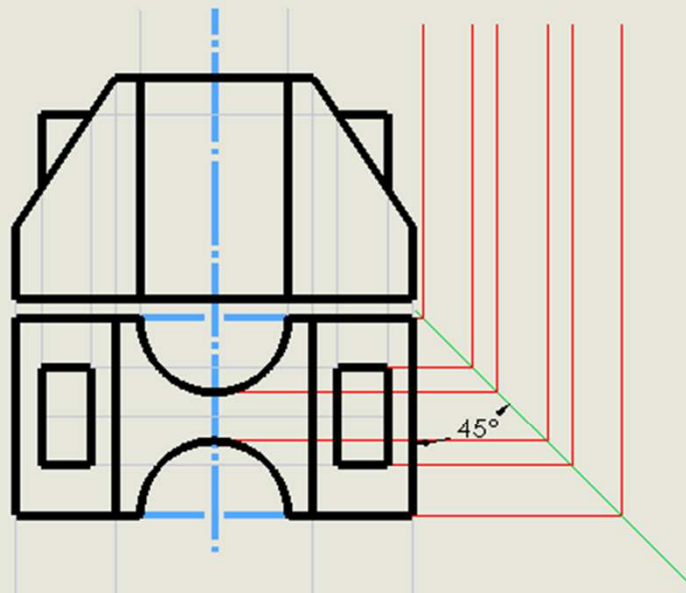
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

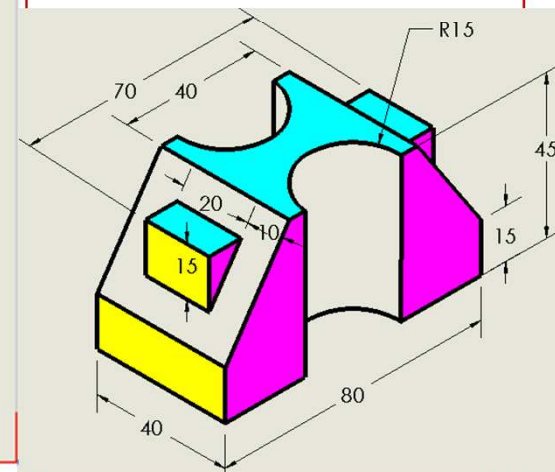
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV



## Problem

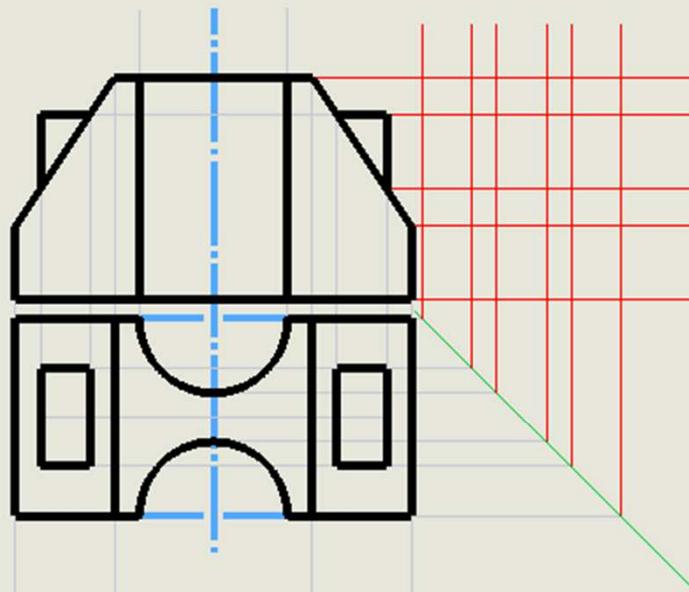
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

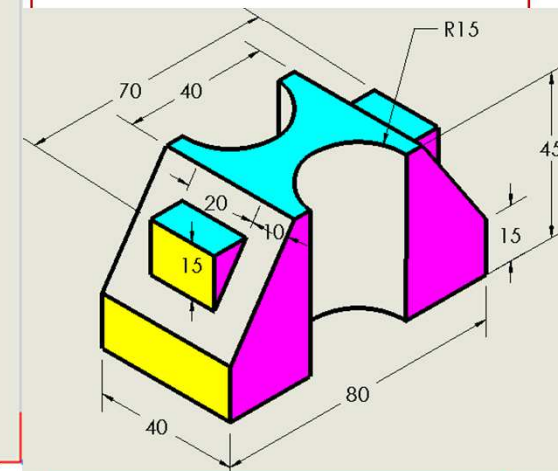
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV  
Make visible planes SV



## Problem

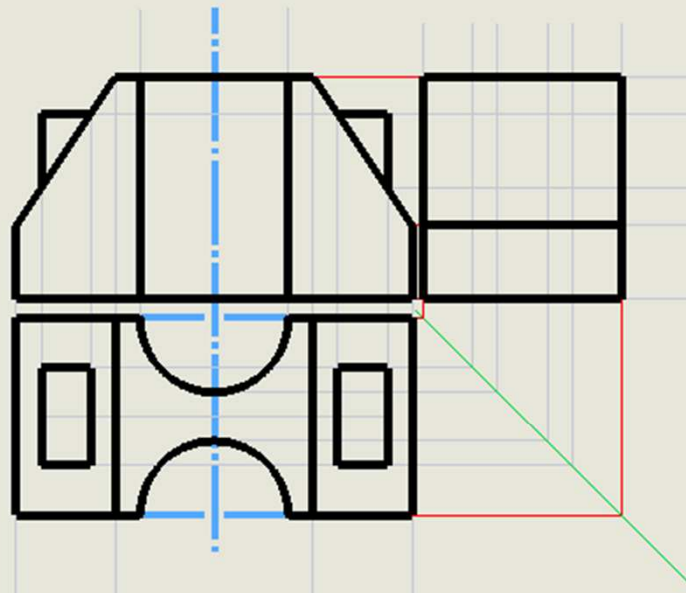
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

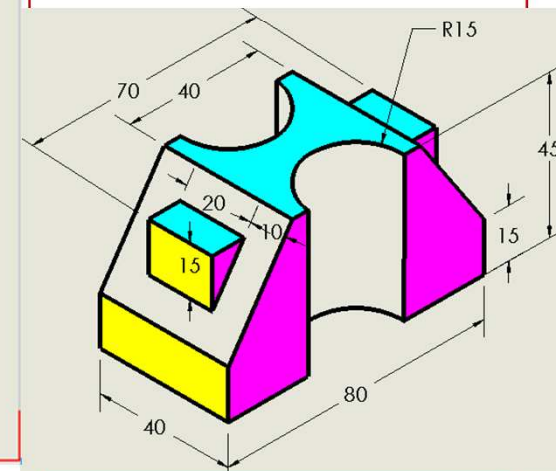
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV  
Make visible planes SV



## Problem

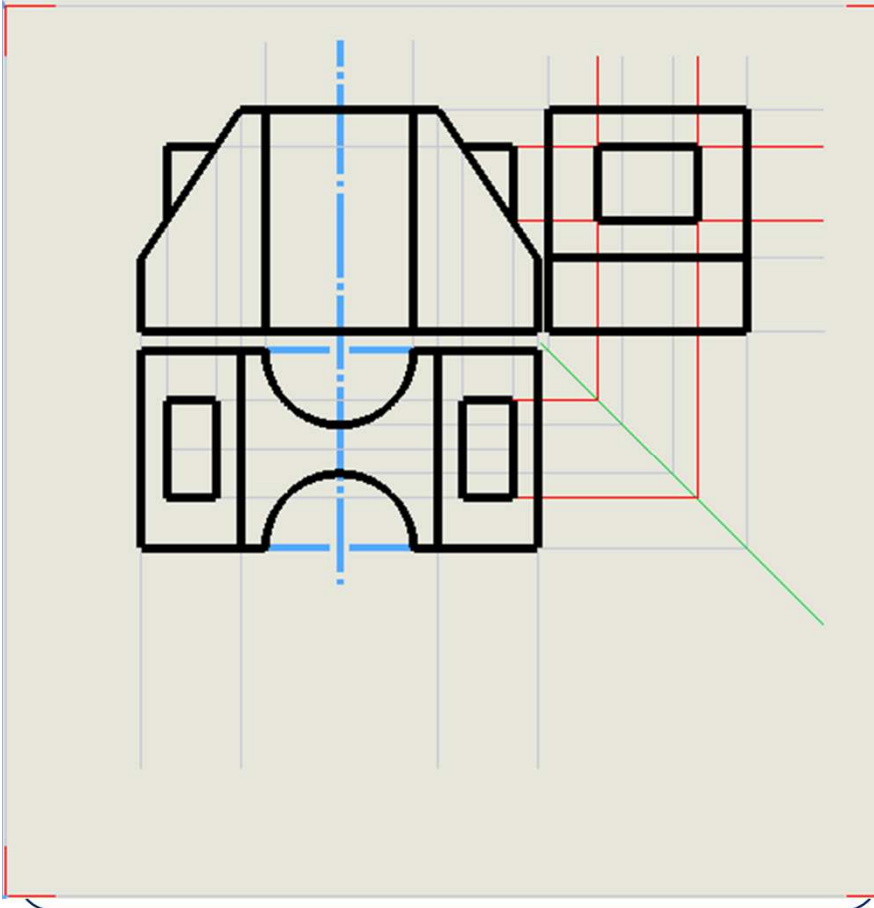
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

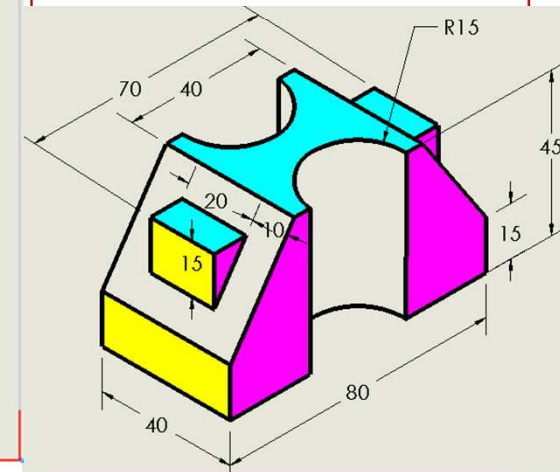
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV  
Make visible planes SV  
Project each node to find hidden parts



## Problem

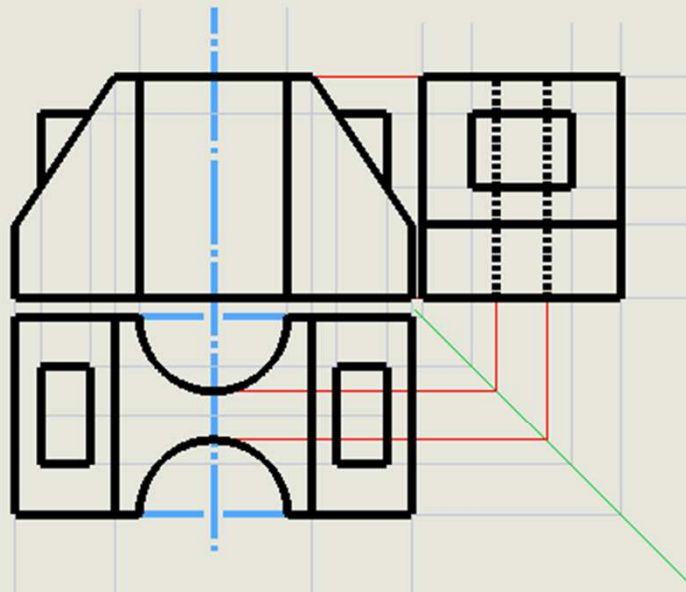
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

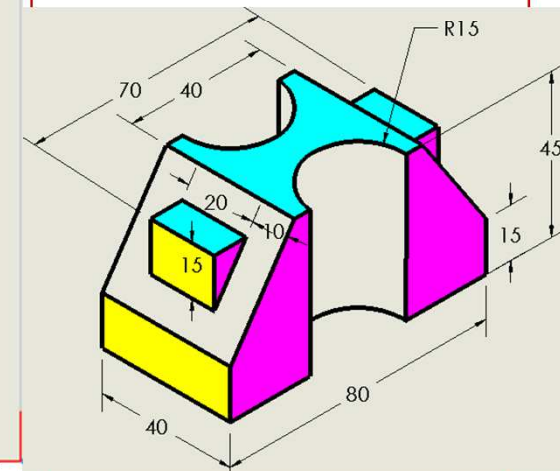
## Instructions

Make visible planes (Front View)  
Make visible planes (Top View)  
Make 45 degree line next to top view  
Project FV and TV nodes for SV  
Make visible planes SV  
Project each node to find hidden parts  
Dimension the views and make  
projection symbol



## Problem

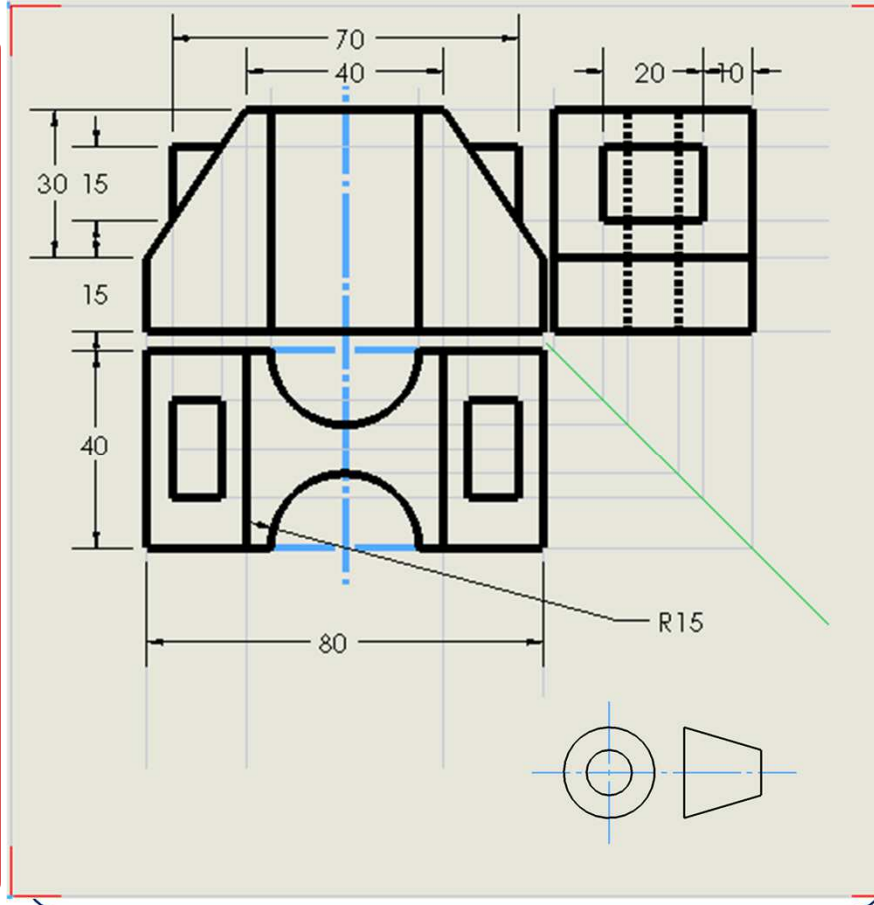
Make orthographic drawing of the following pictorial drawing (Three views).



# ORTHOGRAPHIC PROJECTION

## Instructions

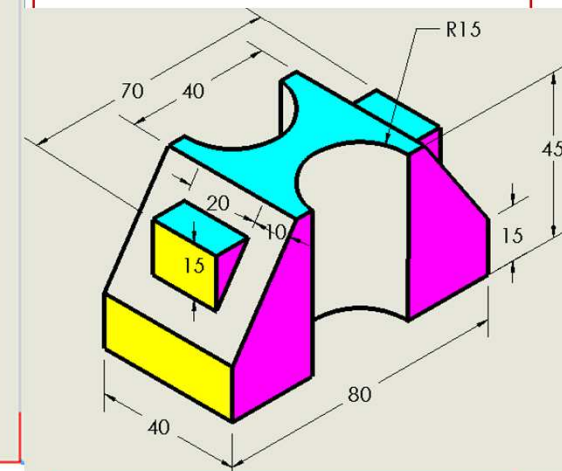
Make visible planes (Front View)  
 Make visible planes (Top View)  
 Make 45 degree line next to top view  
 Project FV and TV nodes for SV  
 Make visible planes SV  
 Project each node to find hidden parts  
 Dimension the views and make  
 projection symbol



## Problem

Make orthographic drawing of the following pictorial drawing (Three views)

## Model







# Any Questions?

Below is YouTube link to watch videos  
[Youtube.com/SuryaAdhikari](https://www.youtube.com/SuryaAdhikari)







THANK YOU