

PROJECT LEAD THE WAY

**PLTW**

Igniting imagination and innovation through learning.

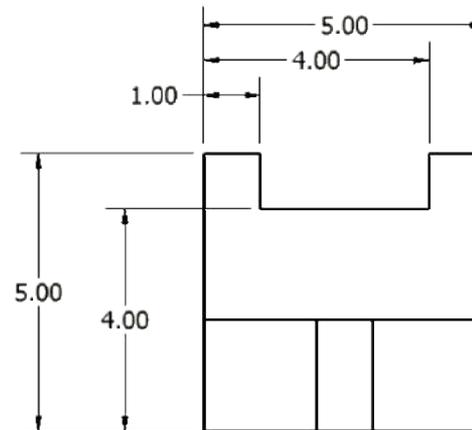
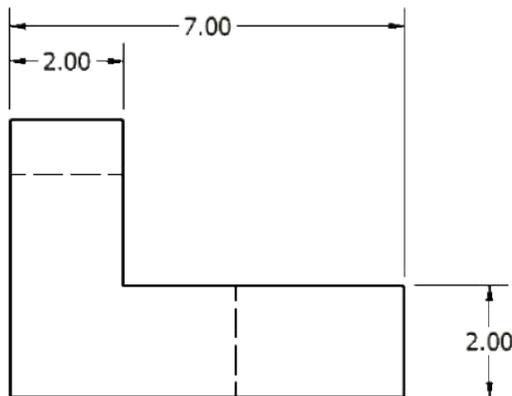
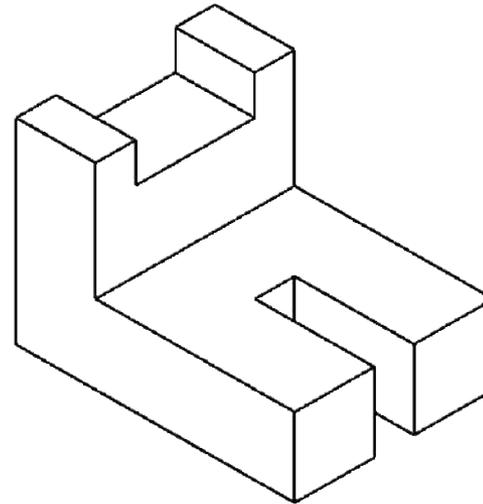
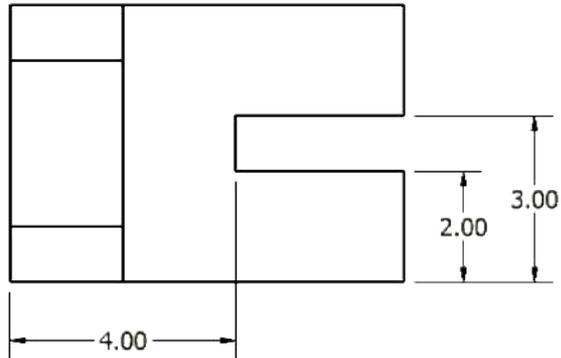
# **Sketching Multiview Drawings**

# Multiview Drawing

***A multiview drawing*** is one that shows two or more two-dimensional views of a three-dimensional object.

***Multiview drawings*** provide the shape description of an object. When combined with dimensions, multiview drawings serve as the main form of communication between designers and manufacturers.

# Multiview Drawing



# Width, Depth, and Height

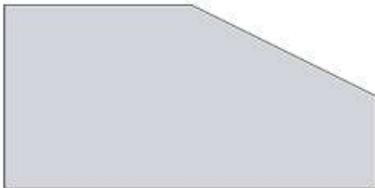
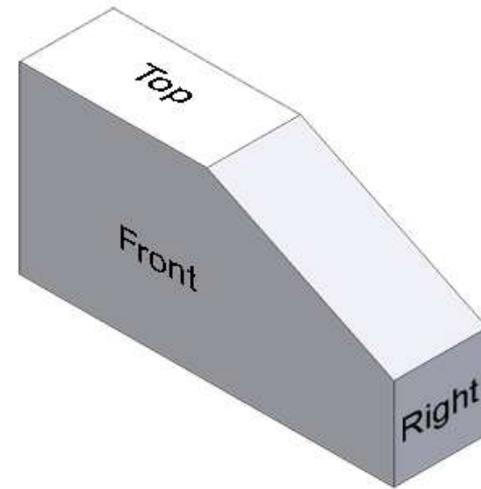
All three-dimensional objects have ***width***, ***height***, and ***depth***.

***Width*** is associated with an object's ***side-to-side*** dimension.

***Height*** is the measure of an object from ***top-to-bottom***.

***Depth*** is associated with ***front-to-back*** distance.

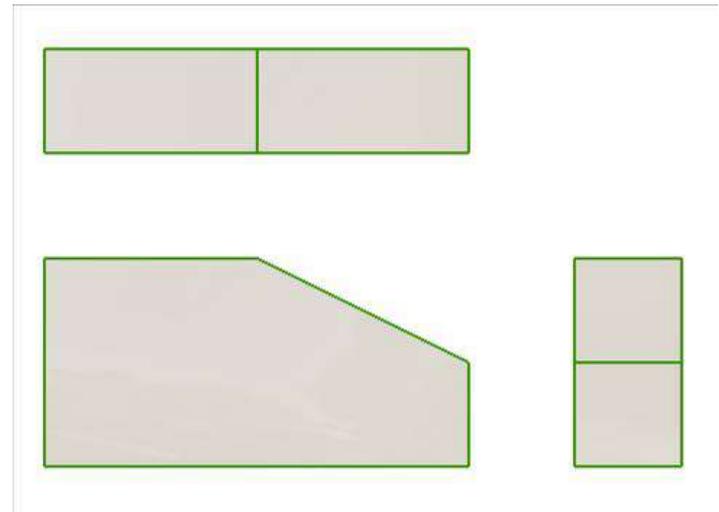
# Width, Depth, and Height



# Sketching a Multiview

## Drawing

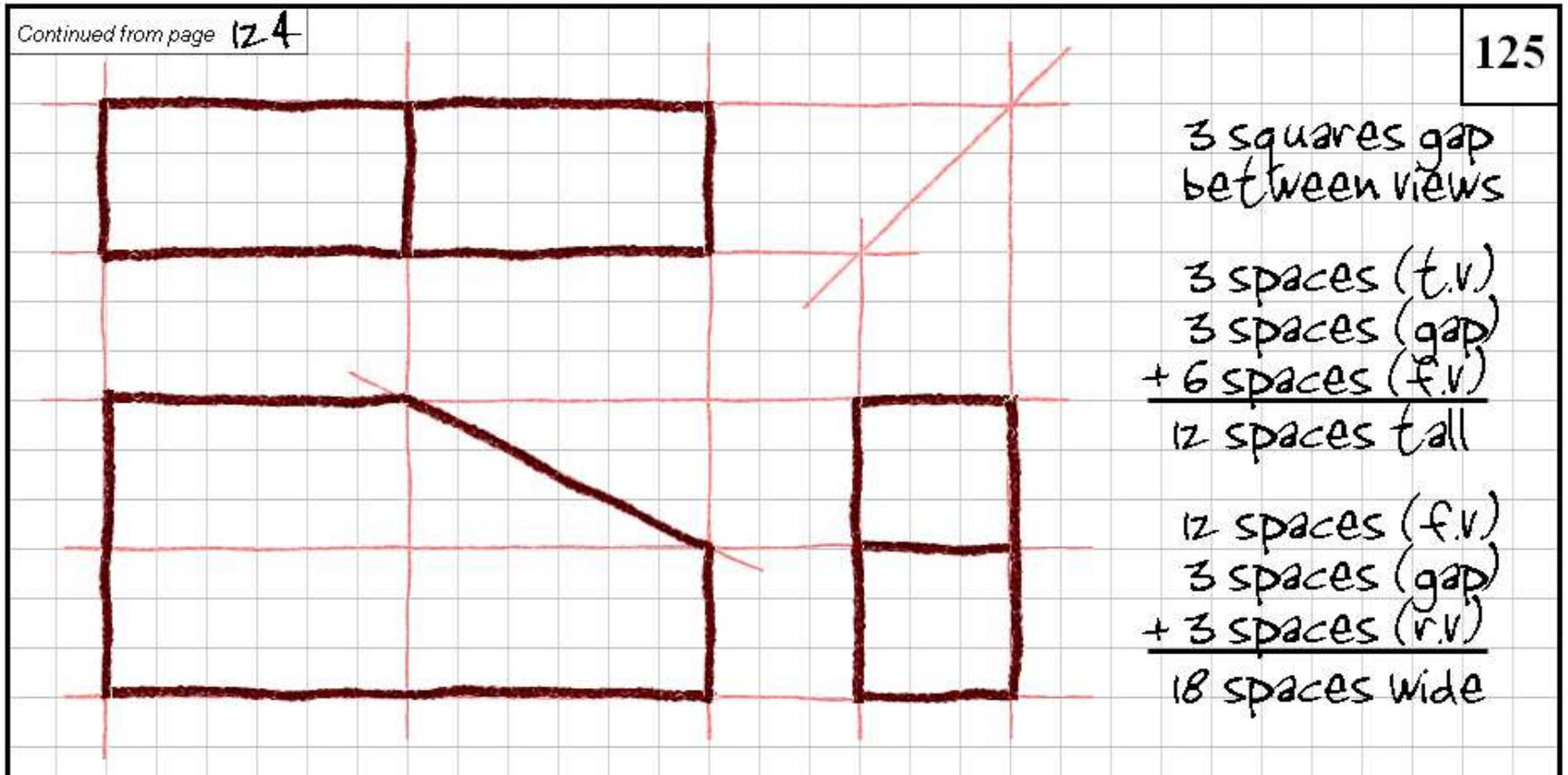
Given the overall dimensions of the object, a pencil, and a sheet of graph paper, a sketching multiview drawing can be easily done using points, construction lines, and object lines



# Object Line Layout

Continued from page 124

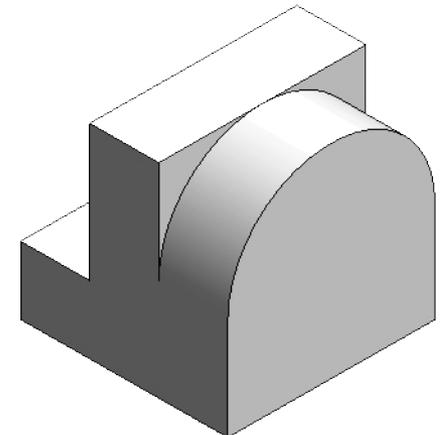
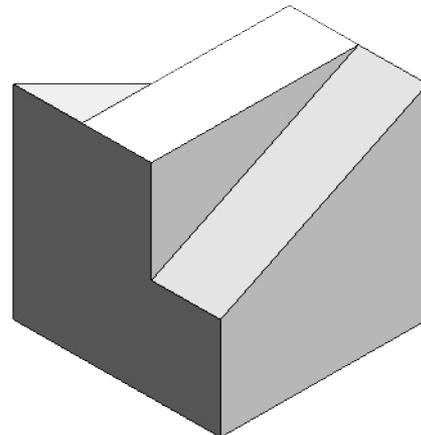
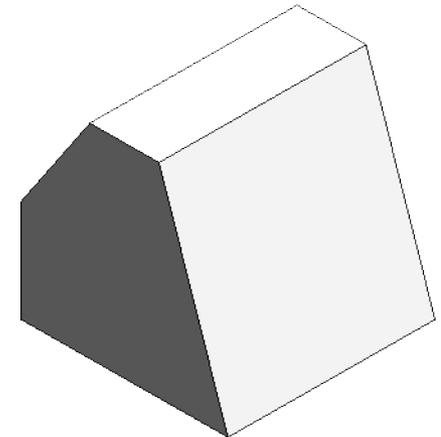
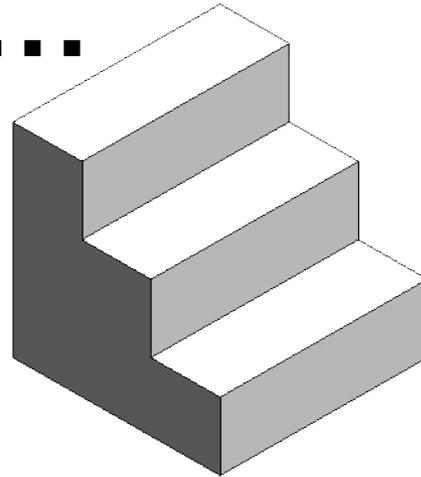
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# A

## Question...

Each of the blocks at right has the same overall dimensions and color. What else do they have in common?



**A**

**Question...**

**They all have  
identical top  
views!**

