



PLTW Virtual Learning

7th and 8th Grade Design and Modeling

April 20, 2020



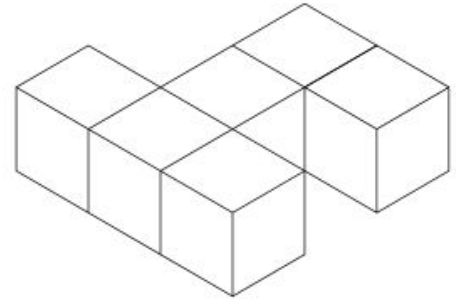
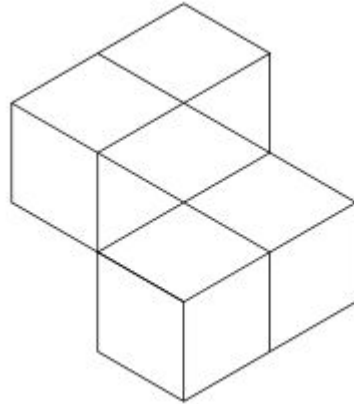
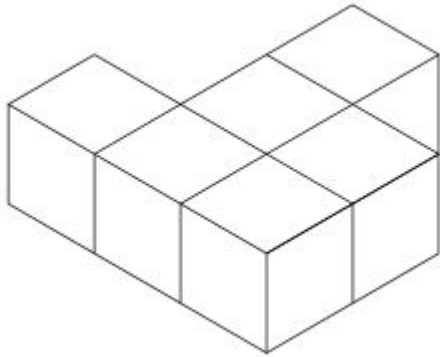
Lesson 1: Multi-View Drawing Day 1

Objective/Learning Target:

Students will understand the properties of multi-view drawings and be able to draw shapes in multi-view.

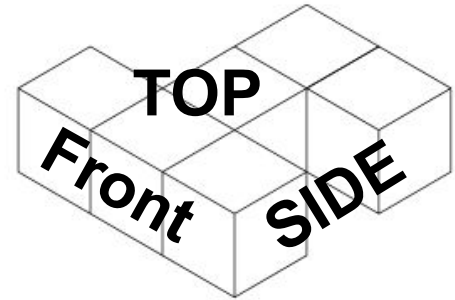
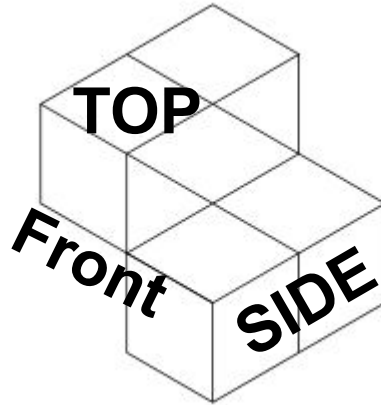
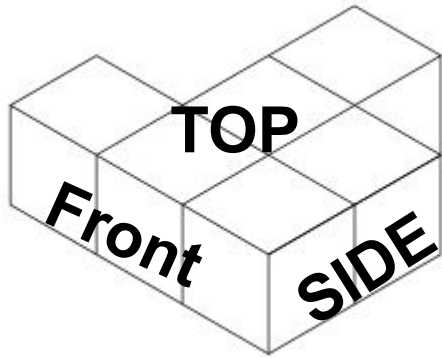
Warm-Up:

Label the top, front and side on the following isometric views.



Warm-Up: Answer

Label the top, front and side on the following isometric views.

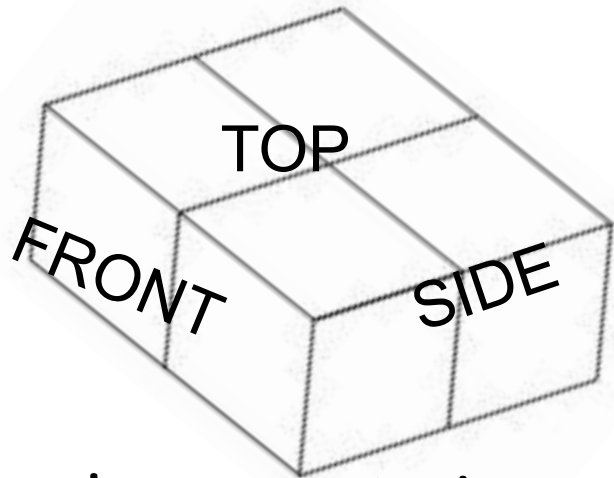


Lesson Introduction/Background Information:

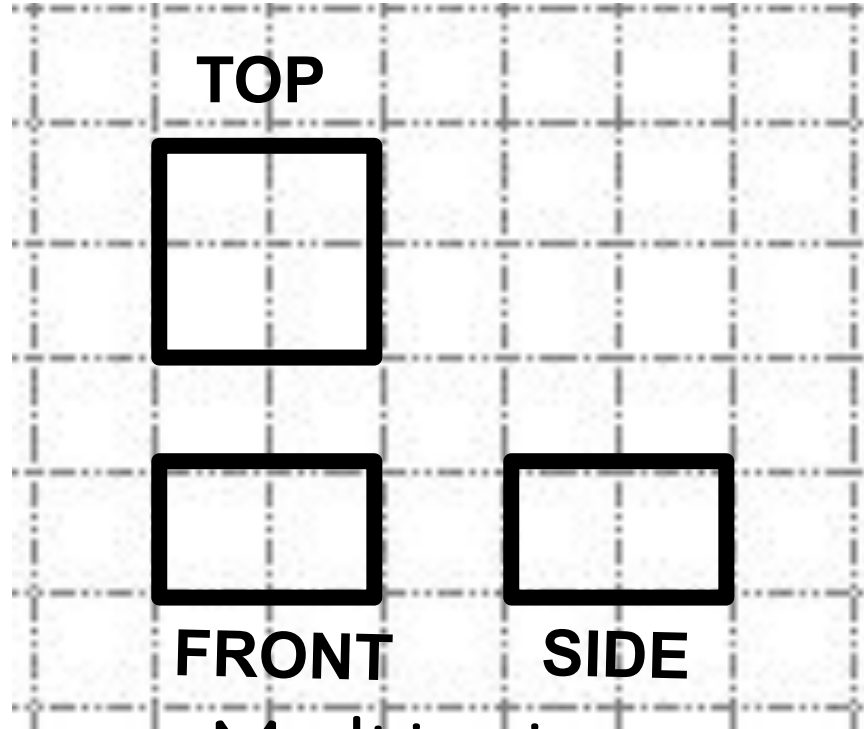
This week we will focusing on multi-view drawing. As you progress through the slides, take notes so that you can add to them and use them throughout the week.

Multi-View

Shows two or more 2-dimensional views of the object.



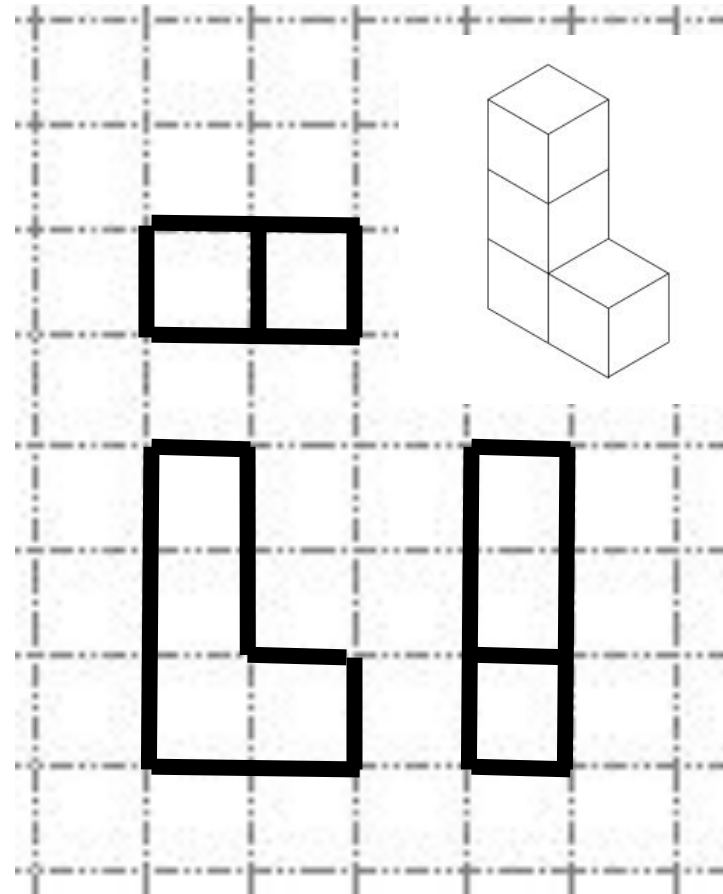
Isometric



Multi-view

Multi-View

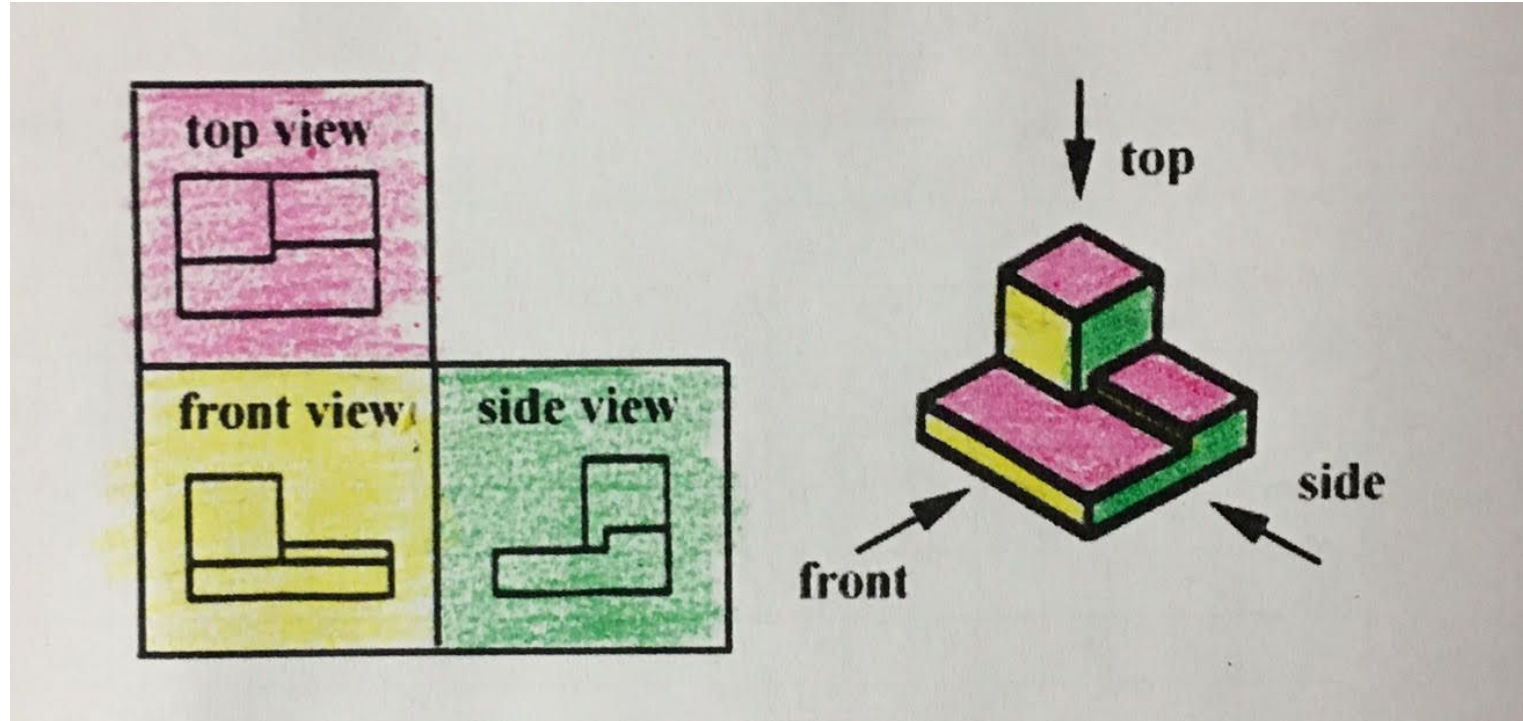
Multi-view drawings show the true size and shape of an object.



Using the correct dimensions is very important!

Notice the top view is directly above the front with the right side view directly to the right of the front.

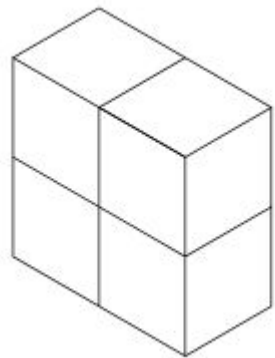
If you would like to use colors to differentiate the views go for it!



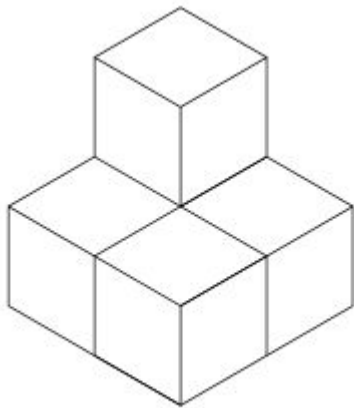
Practice:

Draw the following shapes in multi-view.

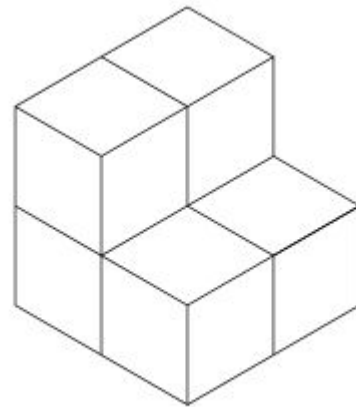
A

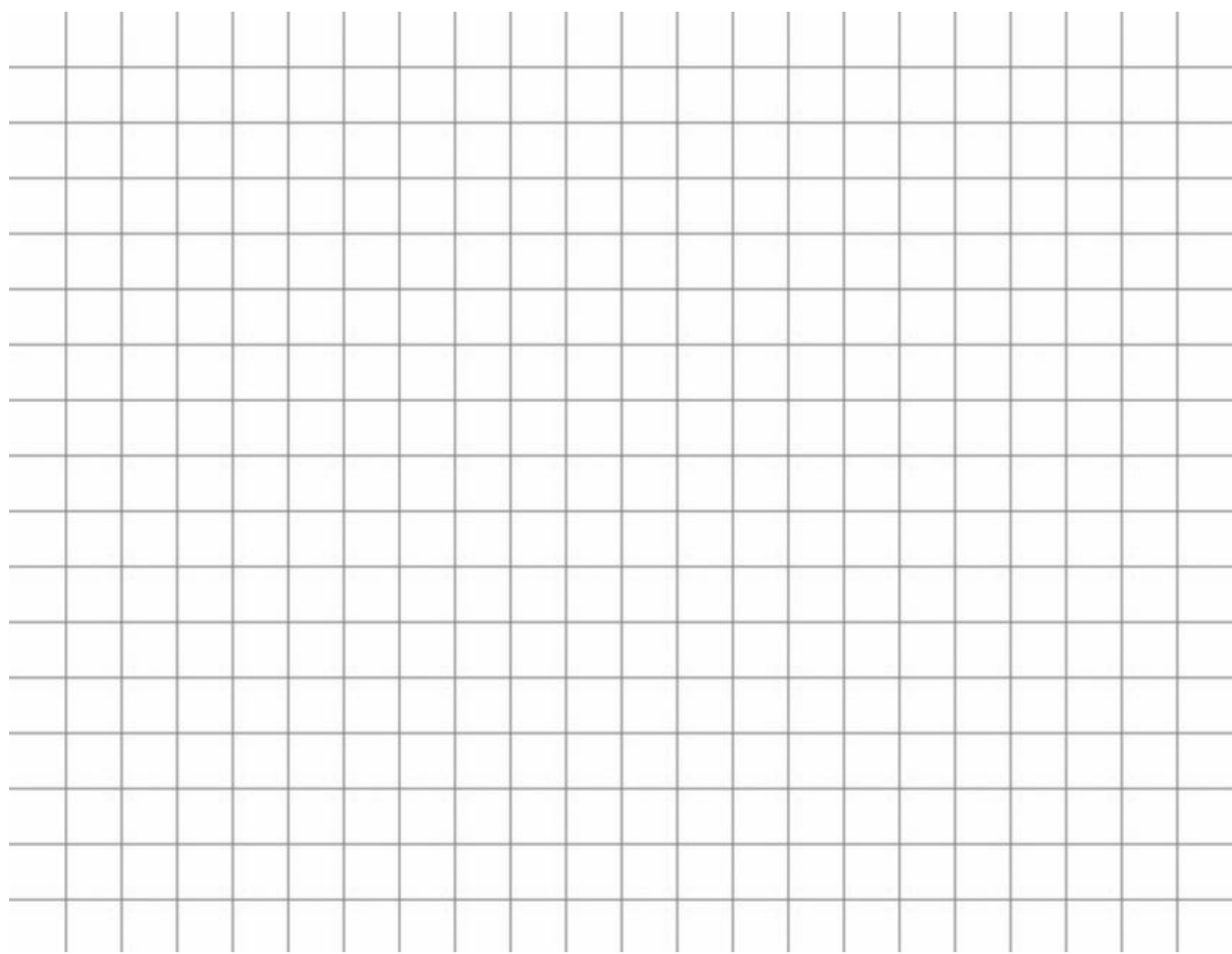


B

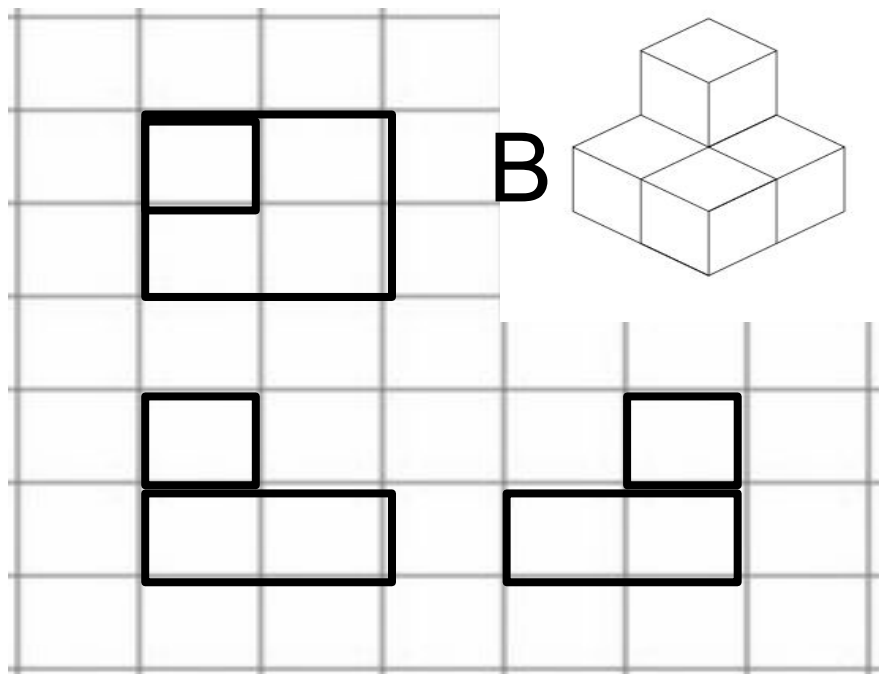
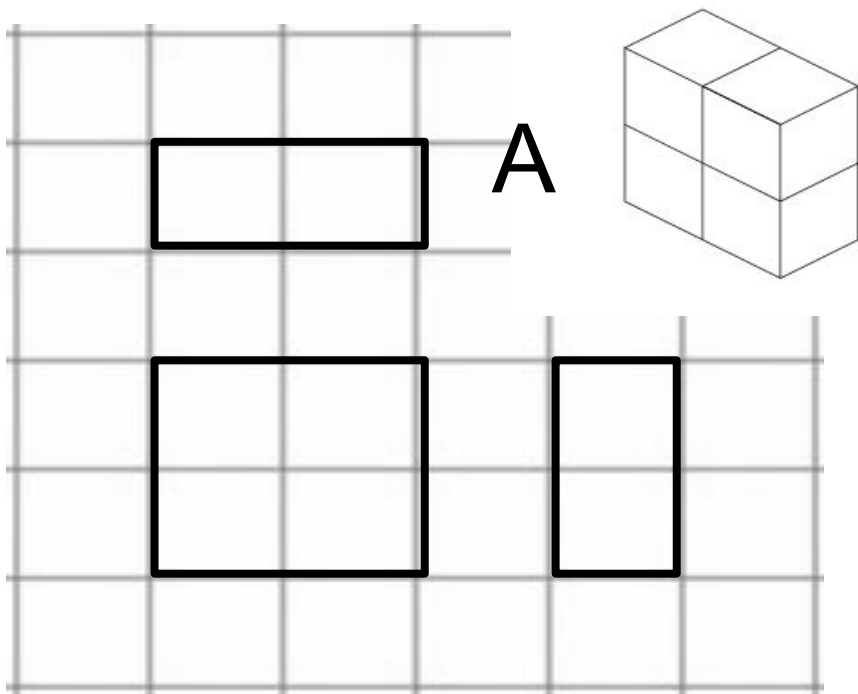


C

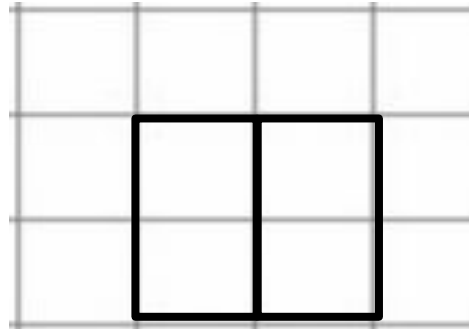




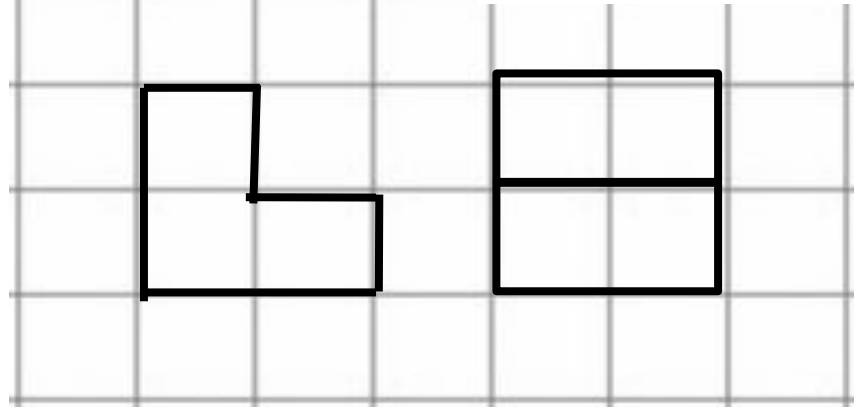
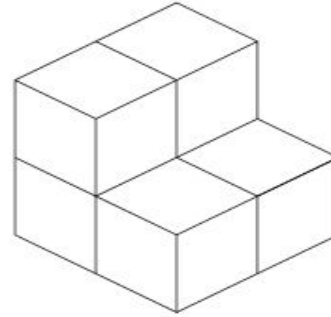
Answers



Answers



C



Self-Assessment:

How did you do on the practice problems?

What mistakes did you make and how did you fix them?

What questions do you still have about multi-view drawing?

Extend Your Learning/Continued Practice:

Watch the video for another example of multi-view drawing.
Try drawing along with the video.

[Multi View Drawing](#)