



PLTW Virtual Learning

7th and 8th Grade Design and Modeling

April 22, 2020



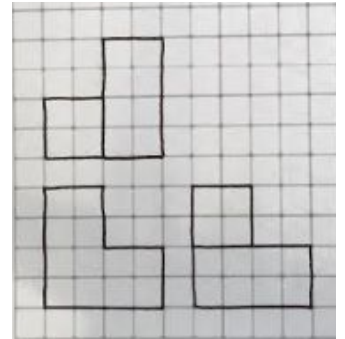
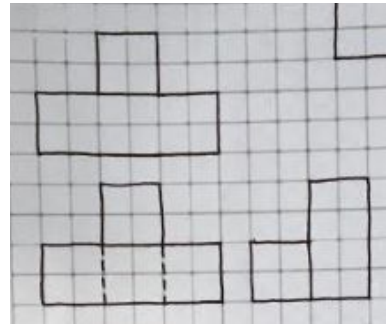
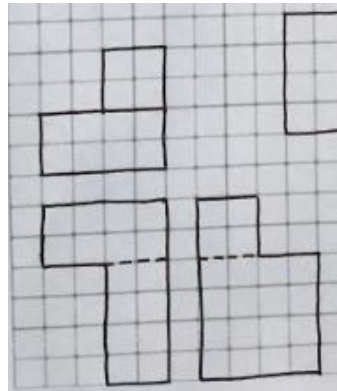
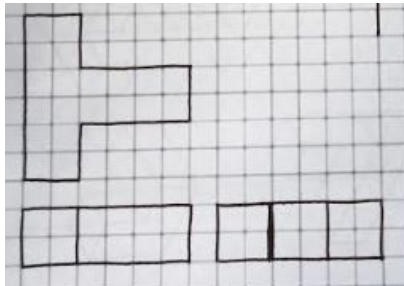
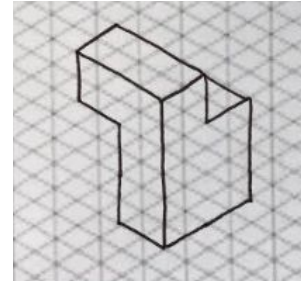
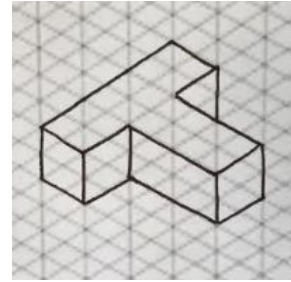
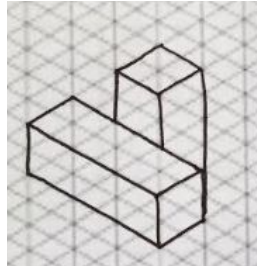
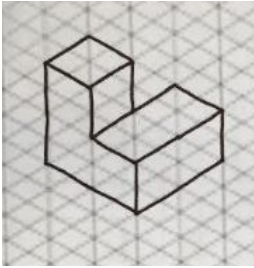
Lesson 1: Multi-View Drawing Day 3

Objective/Learning Target:

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

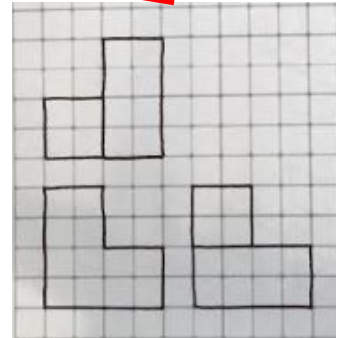
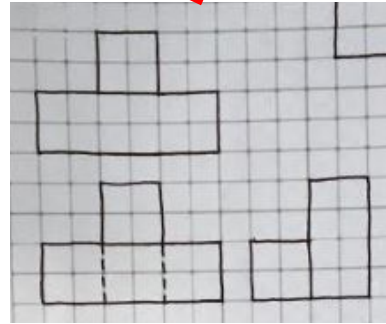
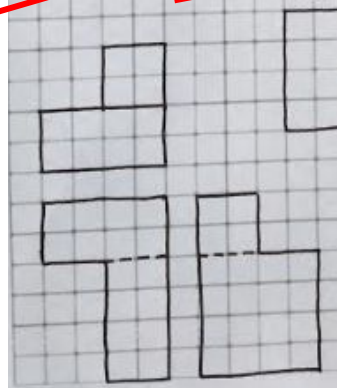
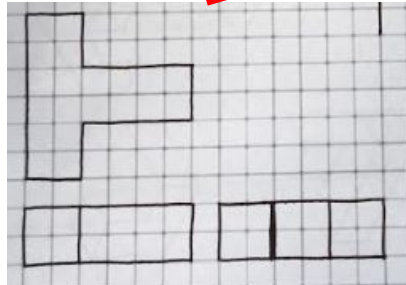
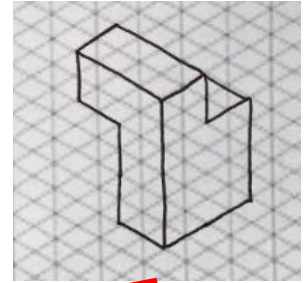
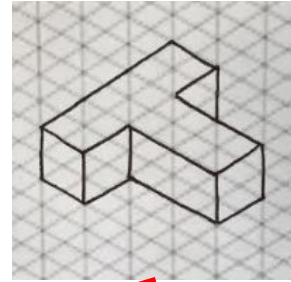
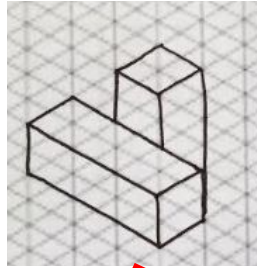
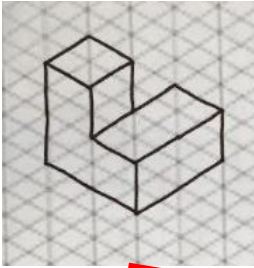
Warm-Up:

Match the isometric drawing to its multiview.



Warm-Up: Answer

Match the isometric drawing to its multiview.



Lesson Introduction/Background Information:

Today is a day to practice your multi-view drawing skills. Have your notes out to help you and add to them as you learn more about multi-view.

We will be using this [website](#) today to help us work through our activity.

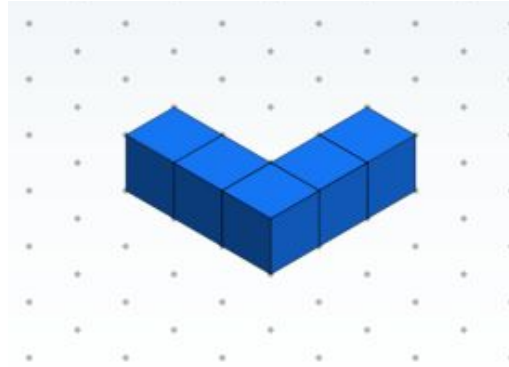
Lesson Introduction/Background Information:

Use the

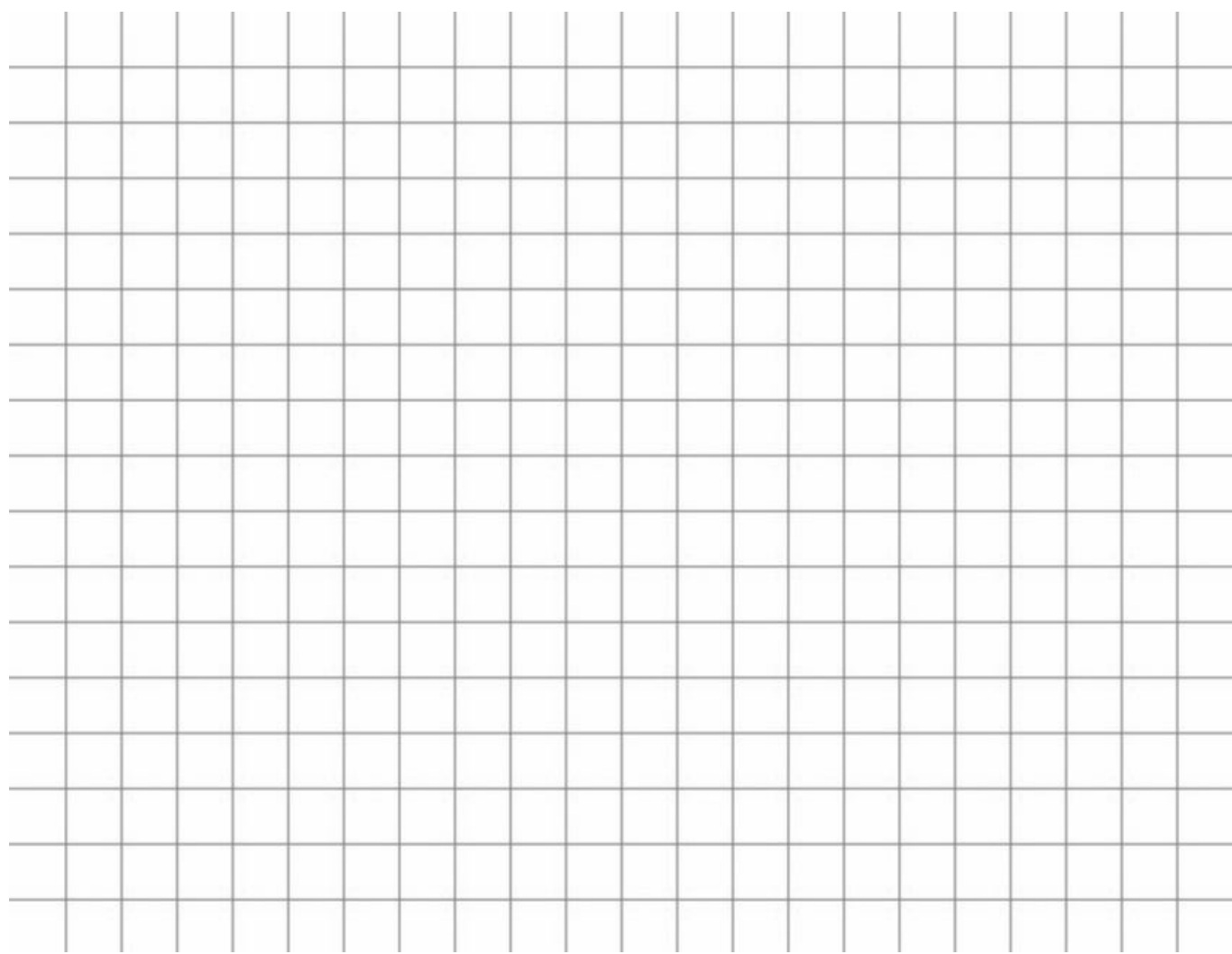


tool to add boxes into your drawing window.

Let's start with this shape.



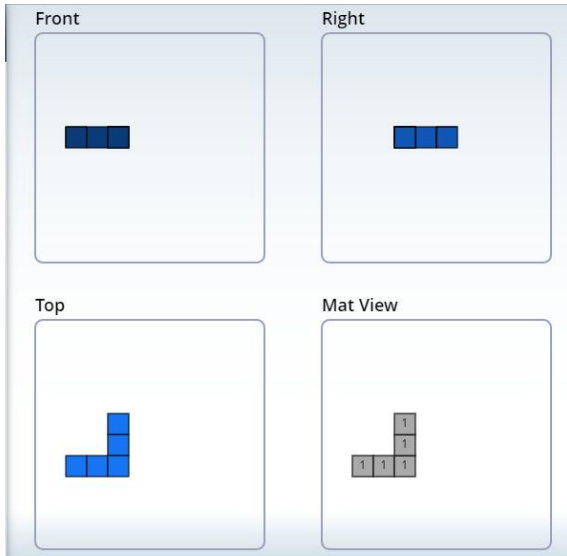
Now draw what you think the multi-view should look like.



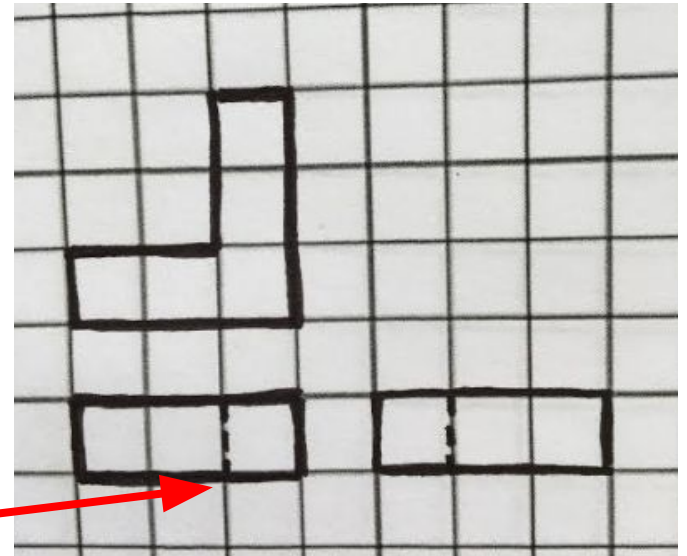
Lesson Introduction/Background Information:

We can use the website to check our answers.

Click the  tab and then choose .

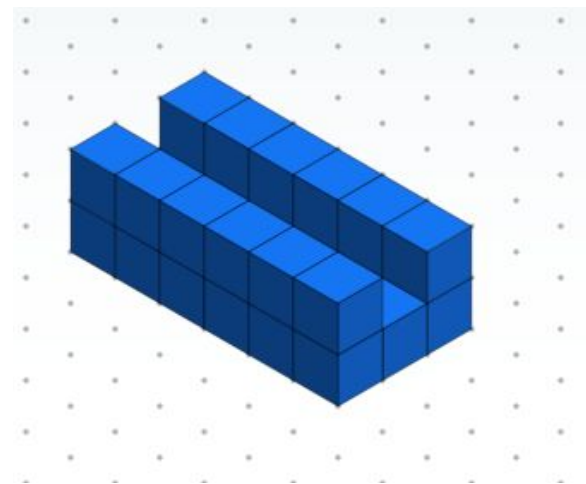


NOTE: The website will help guide you in the right direction but does not give the exact multi-view. Don't forget about the hidden lines.

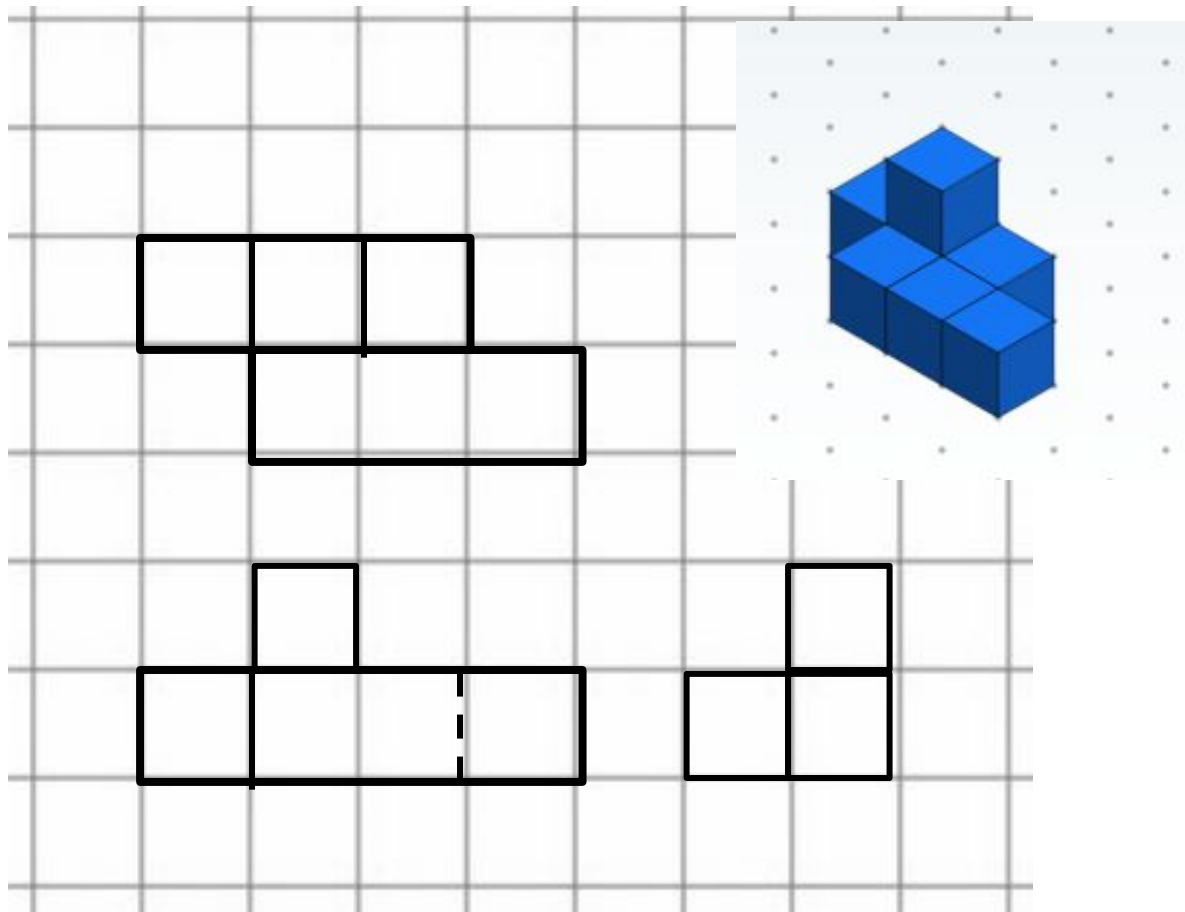


Practice:

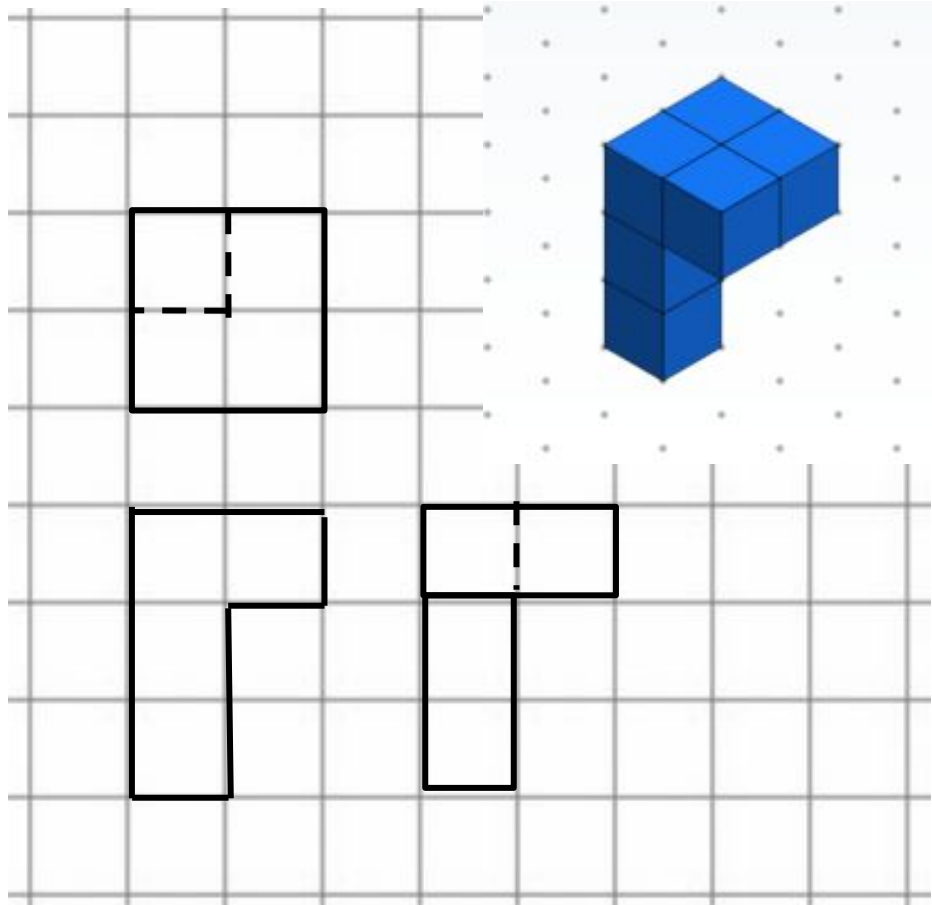
Practice drawing the multi-view of these shapes.



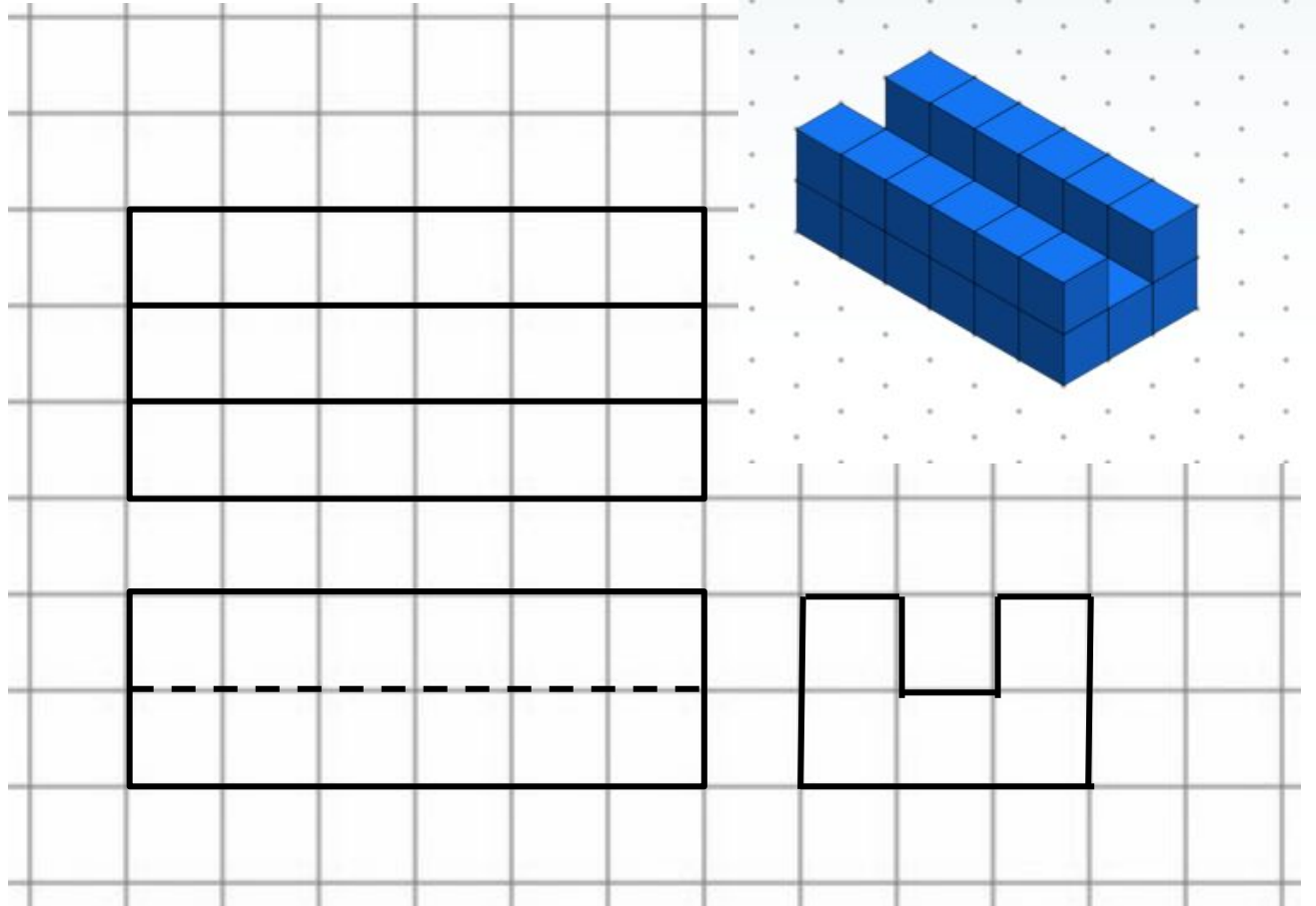
Practice: Answer



Practice: Answer



Practice: Answer



Self-Assessment:

Multi-view shows _____ 2-dimensional drawing of an object.

The _____ view is directly above the _____ with the _____ side view directly to the right of the front.

An object line is used _____.

A hidden line is used _____.

Self-Assessment: Answer

Multi-view shows **two or more** 2-dimensional drawing of an object.

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

An object line is used **to outline the shape of an object.**

A hidden line is used **to show a change in the shape not seen directly from that view.**

Extend Your Learning/Continued Practice:

Keep going. Design your own isometric shapes and draw the multi-view for each of them.