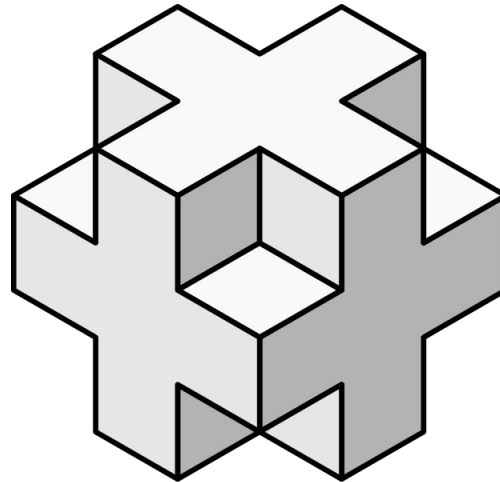


PLTW: Design and Modeling
Lesson: 2 (April 7)

Learning Target:

Students will draw complex shapes in isometric view.



Warm-Up

Isometric views allow engineers to see which sides of an object?

What is special about the similar sides on an isometric view?

Warm-Up

Isometric views allow engineers to see which sides of an object?

Top, Front, and Side.

What is special about the similar sides on an isometric view?

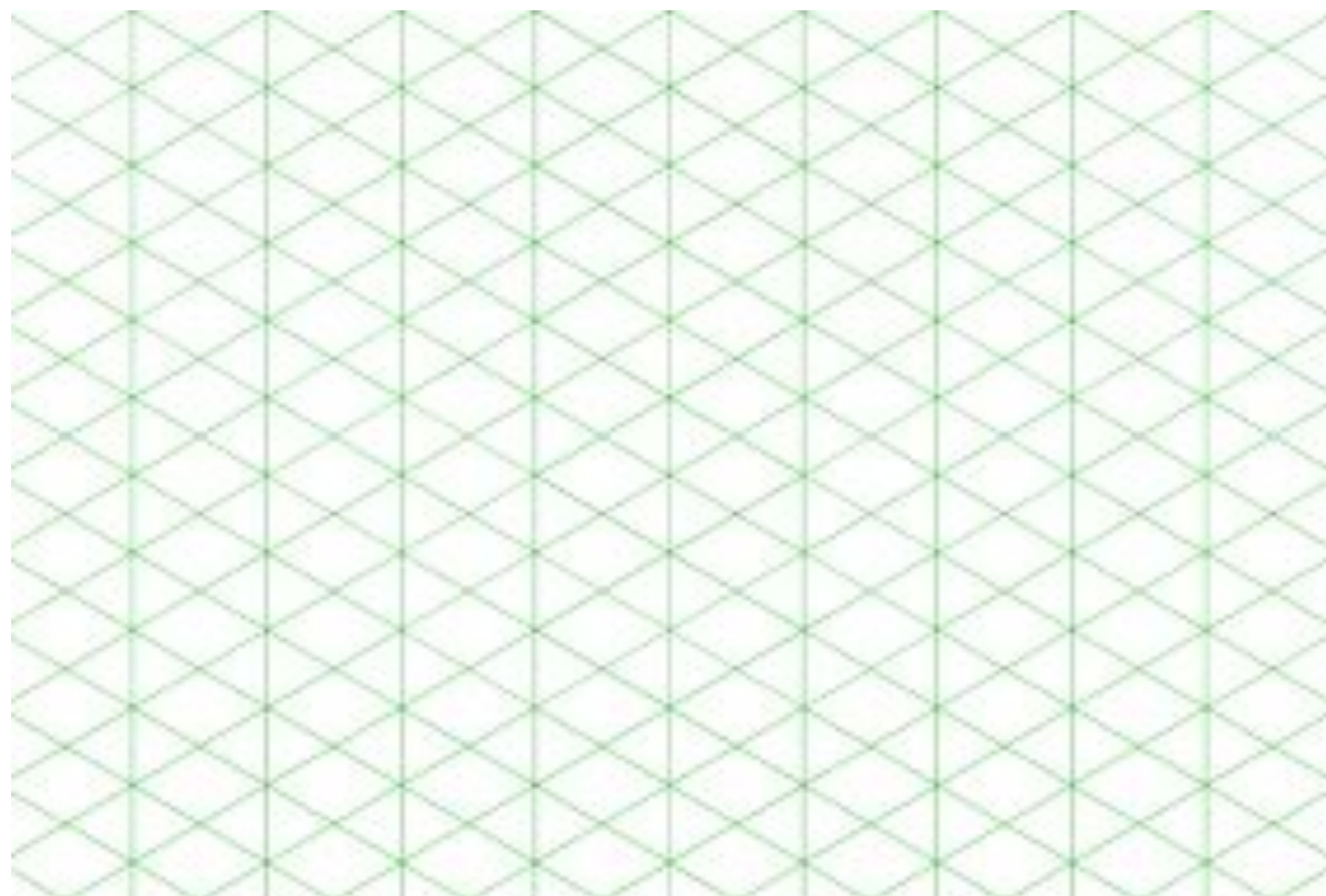
Similar sides are parallel and equal length

Let's Get Started..

We are going to draw some more isometric shapes today. Get a piece of the Isometric Grid Paper or open our Online Drawing Software.

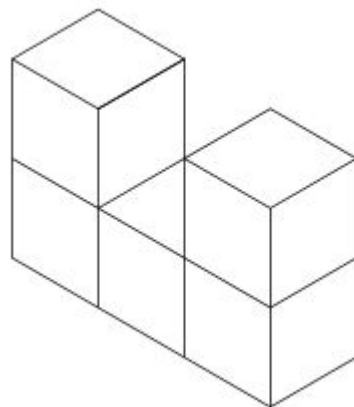
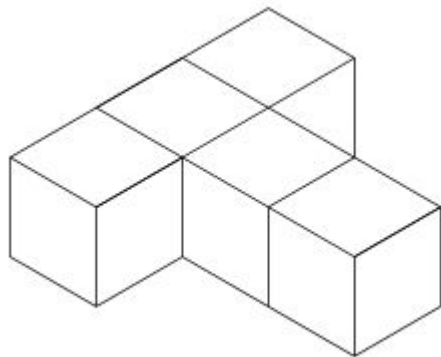
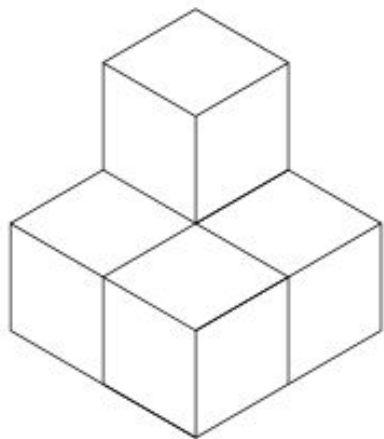
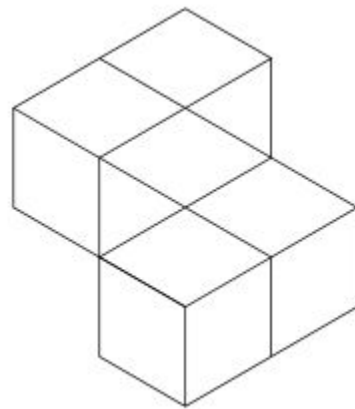
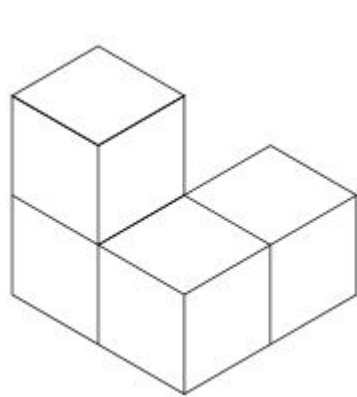
[Link to Isometric Grid Paper](#)

[Link to Online Isometric Drawing](#)



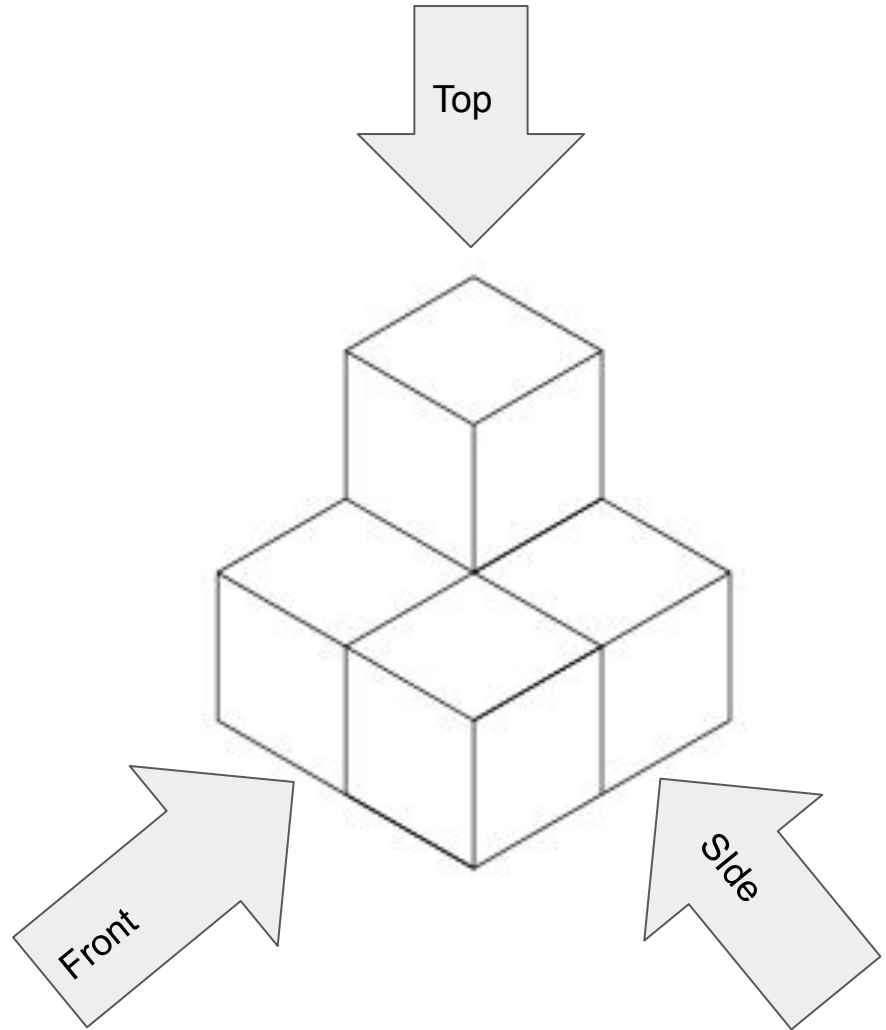
Practice

Draw each of these shapes and label the Front, Top, and Side.



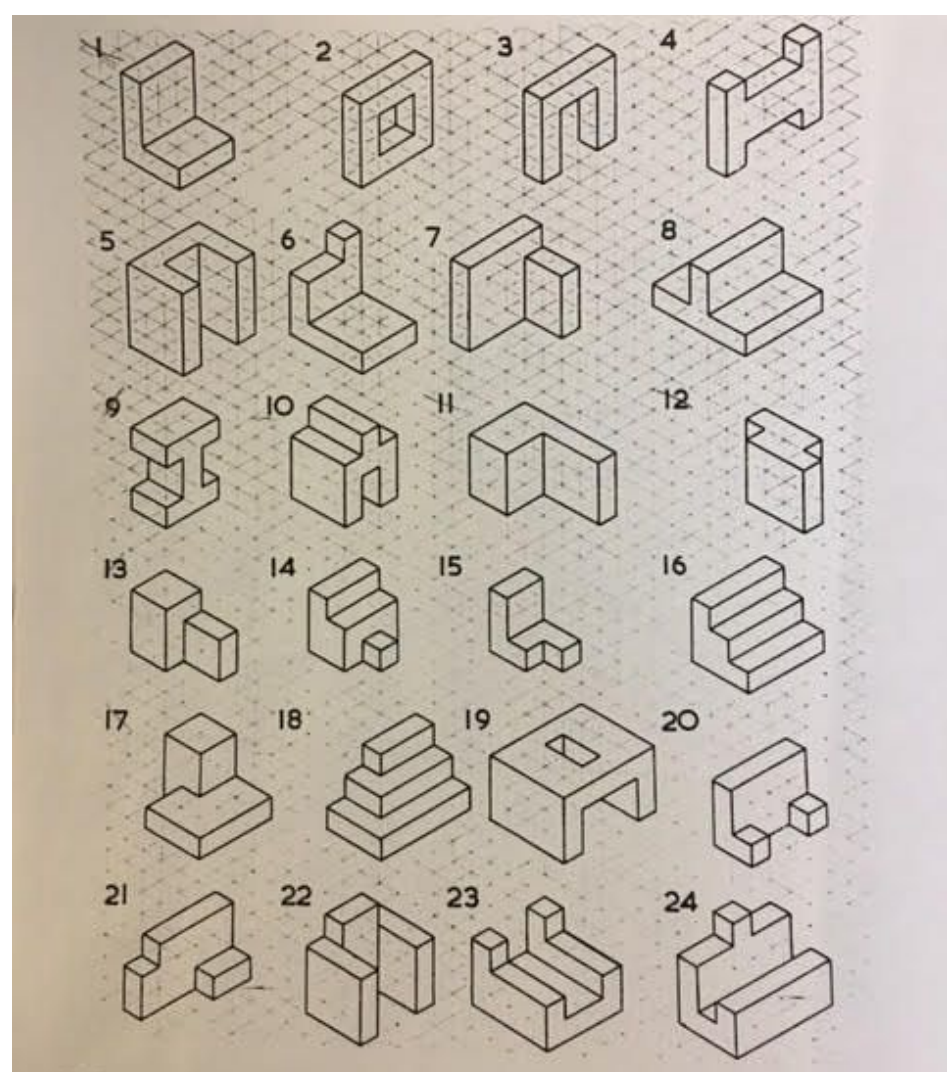
Answer

Draw each of these shapes and label the Front, Top, and Side.



Challenge

Pick 6 of these isometric views to recreate.



Self-Assessment

Quickwrite: Write down everything you can remember about the properties of an isometric view and how it is different than our actual perspective.

Check your answer by revisiting Lesson 1 from April 6.

Additional Resources:

Click on the links below to get additional practice and to check your understanding!

[Isometric Drawing: A Beginner's Guide](#)

[What is Isometric?](#)

More Practice: [Try drawing the shapes along with this video](#)