6th Grade Math Lesson: April 9th, 2020

Learning Target:

Students will be able to plot points on a coordinate plane to create various polygons and be able to identify the shape that they created.

Let's Get Started: Watch Videos: https://bit.ly/341kDCp

#### **Plotting Polygons**

When plotting polygons on the Coordinate Plane, plot the points given and then connect them in the order you plotted them! **Example: connect A to B, B to C, C to D, and D back to A.** 



ALWAYS CHECK YOUR GRID UNITS, FIRST!!!



When plotting polygons on the Coordinate Plane, plot the points given and then connect them in the order you plotted them! **Example: connect A to B, B to C, and C back to A.** 

#### Practice #1

Plot the points on the coordinate plane, then determine what shape has been created.

(5,3),(5,-3),(2,-3),(2,3)



#### Practice #1 - Answer Key

Plot the points on the coordinate plane, then determine what shape has been created.

(5,3),(5,-3),(2,-3),(2,3)



#### Practice #2

# Plot the following points on the Coordinate Plane.

A(-3,-3) B(4,-3) C(6,5)D(-5,5)

The polygon formed by the points is a:



#### **Practice #2 - Answer Key**

# Plot the following points on the Coordinate Plane.

A(-3,-3) B(4,-3) C(6,5)D(-5,5)

The polygon formed by the points is a:

Trapezoid



### **Challenge - Practice!**

Reflect the polygon over the y-axis.

Reflect the polygon over the x-axis.





### Challenge - Answer Key!

Reflect the polygon over the y-axis.

Reflect the polygon over the x-axis.





## **Additional Resources**

https://bit.ly/2wF1xpP Plotting Polygons

https://bit.ly/3bleMVz - Reflecting Polygons