6th Grade Math

Lesson: Reflections and Coordinate Plane

Learning Target:

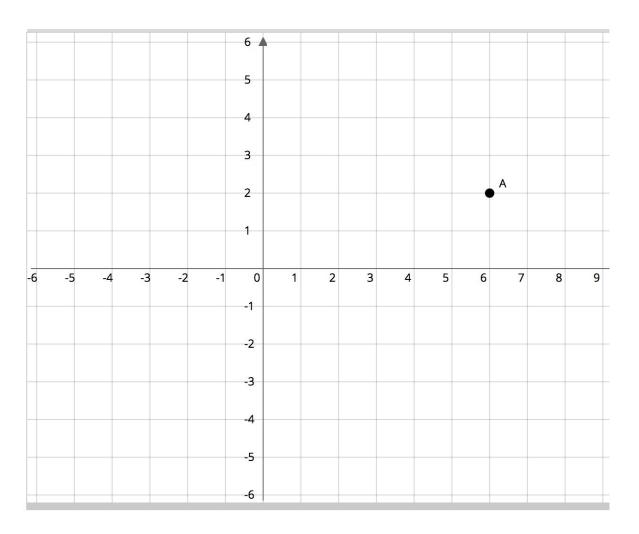
Students will locate and plot points reflected across one or both axes.

Let's Get Started:

Reflecting Points Khan Academy Video:

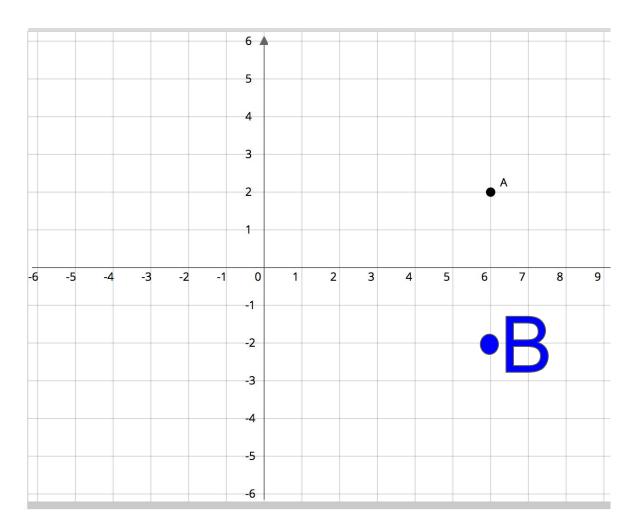
https://bit.ly/2UPGSaf

Point B is a reflection of A across the x-axis. Point A is shown on the graph below. Plot point B.



Practice Answer:

Point B is a reflection of A across the x-axis. Point A is shown on the graph below. Plot point B.



Khan Academy Practice:

https://bit.ly/2QW8Wrn

- 1. Look at the point.
- 2. Determine whether it's an x-axis reflection or y-axis reflection.
 - a. If it's an x-axis reflection, the y coordinate becomes its opposite: (2,3) -> (2,-3)
 - b. If it's a y-axis reflection, the x coordinate becomes its opposite: (2,3) -> (-2,3)
- 3. Click submit for feedback to see how you are doing.

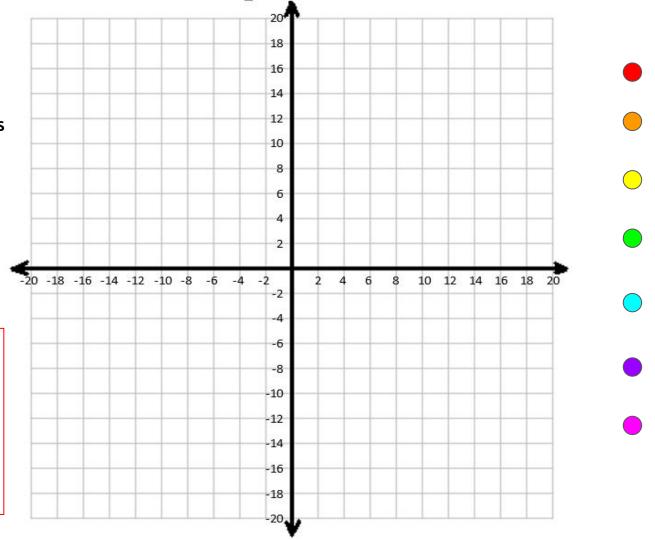
Plot these points on the next slide or on a piece of paper.

Points:

- Red: Reflection of (-10,4) about the x-axis
- Orange: Reflection of (-2,-12) about the y-axis
- Yellow: Reflection of (8, 5) about the x-axis
- Green: Reflection of (12, -13) about the y-axis
- Blue: Reflection of (0,0) about the y-axis
- Purple: Reflection of (0, -8) about the x-axis
- Pink: Reflection of (-8, 0) about the y-axis

- Follow directions on this slide to plot the correct points.
- 2. Write what the new coordinates for each point in the box below



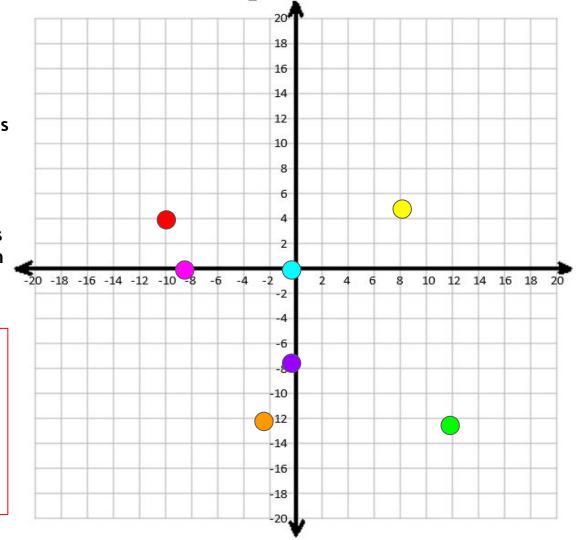


Practice Answers:

- 1. Follow directions on this slide to plot the correct points.
- 2. Write what the new coordinates for each point in the box below

New Coordinates Red: 10,-4 Orange: -2,12 Yellow: -8,5 Green: 12,13 Blue: 0,0 Purple: -0,-8

Pink: -8,-0



Additional Practice:

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

Practice Worksheet:

Reflecting Points

Practice Website:

https://www.ixl.com/math/geometry/reflections-find-the-coordinates