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:
Practice:
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.
Practice:
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.
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
Practice:

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:
Orange:
Yellow:
Green:
Blue:
Purple:
Pink:
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