



### Coordinate Plane Reflections

#### Today's Standard

6.NS.C6b - Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.

#### Real-World Applications for this Standard

Mapping locations on a grid; Designing symmetrical patterns; Understanding GPS coordinates; Analyzing movements in video games; Creating art using reflections

#### Today I Learned

Today, we learned about how the signs of numbers in ordered pairs show where points are on a coordinate grid. We also learned that points with different signs are reflections of each other across the axes.

#### Common Stumbling Blocks

One common mistake is thinking that the signs of the numbers in ordered pairs don't matter. Another mistake is not understanding that points with different signs are related by reflections.

#### Quiz Me

- What is the coordinate plane?
- How do you plot a point?
- What happens when you change the signs in an ordered pair?
- What are reflections on a grid?
- Why are signs important in ordered pairs?

#### Help Me

The coordinate plane is like a map with an x-line and a y-line. When you change the signs in an ordered pair, the point moves to a different spot on the map, like a mirror image. This helps us understand things like maps and designs.