

Name _____

Ordered Pair Relationships



COMMON CORE STANDARD—6.NS.C.6b
Apply and extend previous understandings of numbers to the system of rational numbers.

Identify the quadrant where the point is located.

1. $(10, -2)$ Quadrant: IV 2. $(-5, -6)$ Quadrant: _____ 3. $(3, 7)$ Quadrant: _____

The two points are reflections of each other across the x - or y -axis. Identify the axis.

4. $(5, 3)$ and $(-5, 3)$ 5. $(-7, 1)$ and $(-7, -1)$ 6. $(-2, 4)$ and $(-2, -4)$

axis: _____

axis: _____

axis: _____

Give the reflection of the point across the given axis.

7. $(-6, -10)$, y -axis 8. $(-11, 3)$, x -axis 9. $(8, 2)$, x -axis

Problem Solving



10. A town's post office is located at the point $(7, 5)$ on a coordinate plane. In which quadrant is the post office located?

11. The grocery store is located at a point on a coordinate plane with the same y -coordinate as the bank but with the opposite x -coordinate. The grocery store and bank are reflections of each other across which axis?

12. **WRITE** *Math* Explain to a new student how a reflection across the y -axis changes the coordinates of the original point.

