

Name ___

Date_

REFLECTION & DISTANCE ON THE COORDINATE PLANE

Reflect each point across the given axis, and write the coordinates of the point that results.

1. Reflect point P across the y-axis.



3. Reflect point Q across the y-axis.



2. Reflect point J across the x-axis.





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PARTII Find the distance between each of the sets of points below. Explain how you can find the answer using absolute values.





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PART III Solve each problem below.

1. Determine whether the points (-5,8) and (-5,-4) lie on the same horizontal or vertical line. Explain how you know. Then, find the length of the line segment that connects them.

2. Skye's city is on a grid like the coordinate plane. He unicycles from point (11,15) to point (11, -12). How many units does he travel? Explain how you found your answer using absolute value.



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BONUS Plot the following points on the coordinate plane. Connect them, and find the area of the shape that results.

