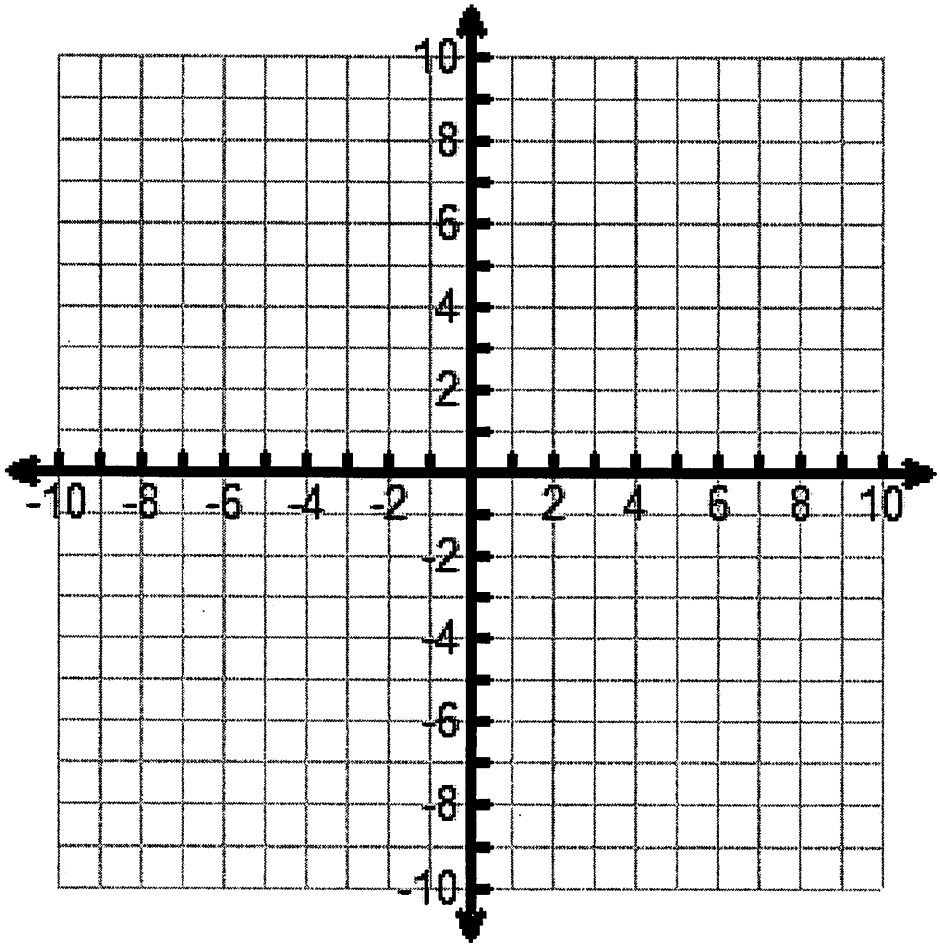
Graphing and Reflections Homework Name _____

Fill out the chart below by graphing and reflecting the given point over the indicated axis.



	(4, 8)	(2, -6)	(-9, 3)	(0, 4)	(-8, -1)
Reflect over *x*-axis					
Reflect over *y*-axis					
Reflect over *x*-axis first and then reflect over *y*-axis					
Reflect over *y*-axis first and then reflect over *x*-axis					

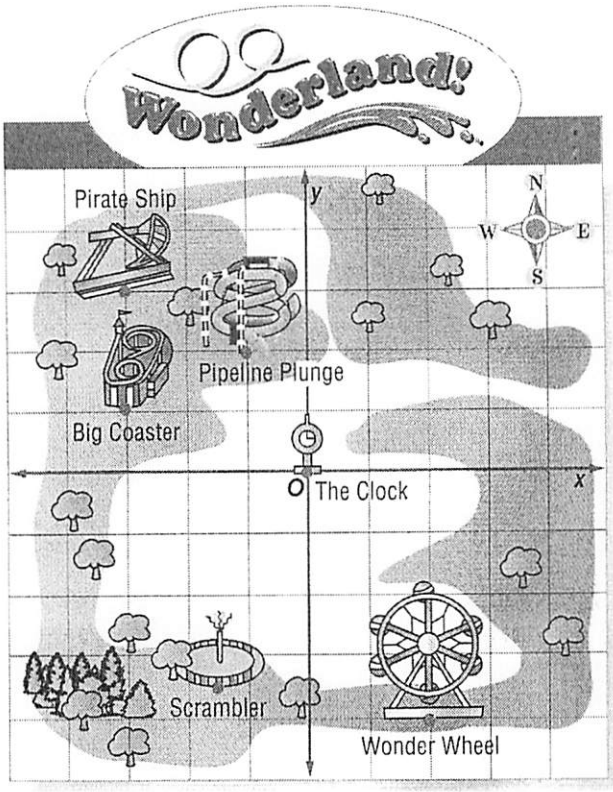
CCSS **Use Math Tools** Refer to the map of Wonderland Park. (Examples 3 and 4)

a. What is located closest to the origin?

b. Liza is standing at (2, 4). What is located at the reflection of (2, 4) across the *x*-axis? What are the coordinates of this location?

c. What is located at the reflection of (3, 1) across the *y*-axis? What are the coordinates of this location?

d. The Pipeline Plunge is reflected across the *x*-axis. What are the coordinates of its new location?



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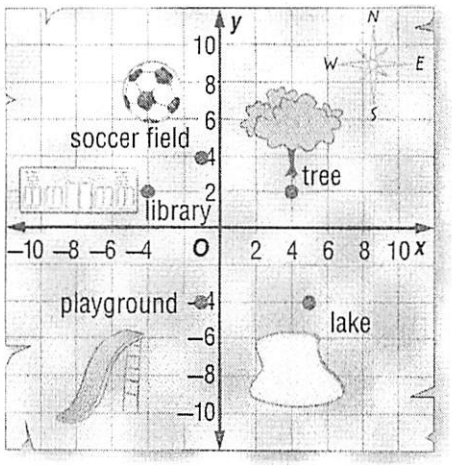
1. The first clue is hidden near a tree. What ordered pair describes its location?

2. Maria hid the next clue at a location reflected across the *y*-axis. Where is it hidden?

3. She walks 3 blocks east and 2 blocks north to place the next clue. Where is it hidden?



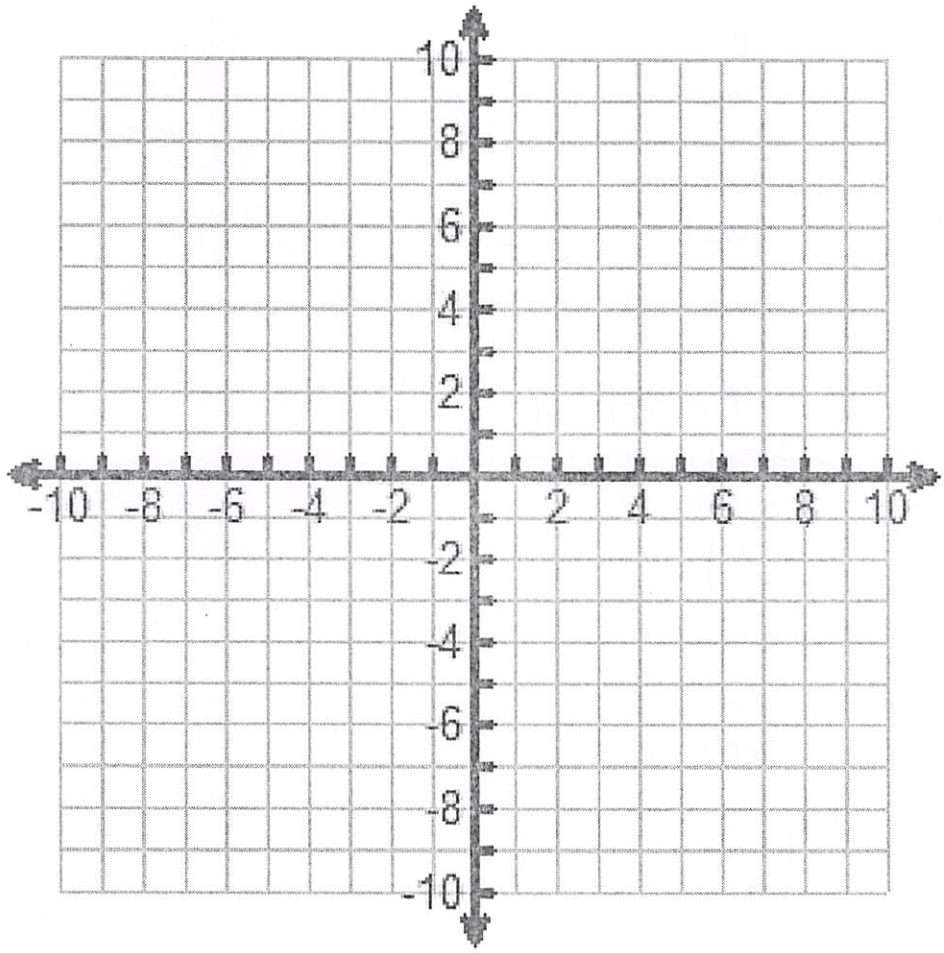
4. The next clue is at a location reflected across the *x*-axis. Where is it hidden?

5. Maria hid the next clue under a rock by the lake. How many blocks east did she walk to the lake?

6. The final clue tells the hikers to walk 5 blocks north and three blocks east to find the prize. What ordered pair describes the location of the prize?

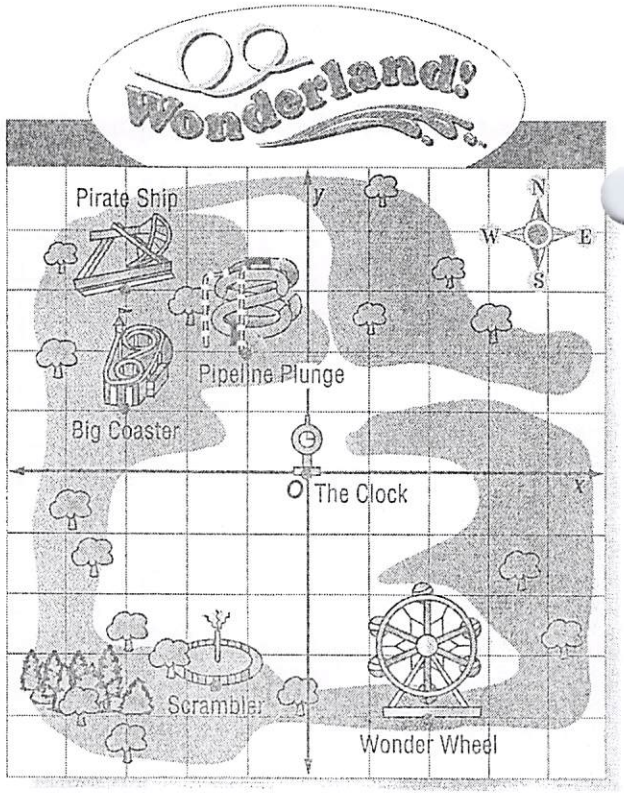
Graphing and Reflections Homework Name Key

Fill out the chart below by graphing and reflecting the given point over the indicated axis.



	(4, 8)	(2, -6)	(-9, 3)	(0, 4)	(-8, -1)
Reflect over *x*-axis	(4, -8)	(2, 6)	(-9, -3)	(0, -4)	(-8, 1)
Reflect over *y*-axis	(-4, 8)	(-2, -6)	(9, 3)	(0, 4)	(8, -1)
Reflect over *x*-axis first and then reflect over *y*-axis	(-4, -8)	(-2, 6)	(9, -3)	(0, -4)	(8, 1)
Reflect over *y*-axis first and then reflect over *x*-axis	(-4, -8)	(-2, 6)	(9, -3)	(0, -4)	(8, 1)

CCSS **Use Math Tools** Refer to the map of Wonderland Park. (Examples 3 and 4)



a. What is located closest to the origin?

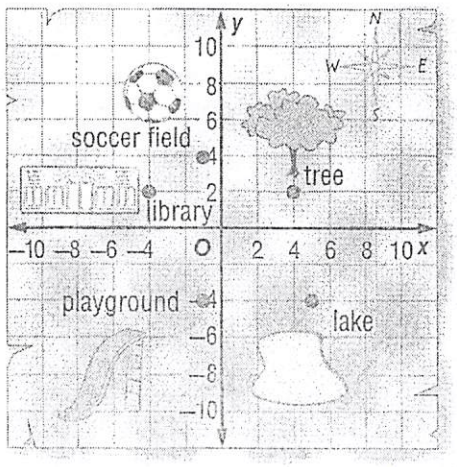
The Clock

b. Liza is standing at (2, 4). What is located at the reflection of (2, 4) across the *x*-axis? What are the coordinates of this location?

The Wonder Wheel (2, -4)

c. What is located at the reflection of (3, 1) across the *y*-axis? What are the coordinates of this location? The Big Coaster (-3, 1)

d. The Pipeline Plunge is reflected across the *x*-axis. What are the coordinates of its new location? (-1, -2)



1. The first clue is hidden near a tree. What ordered pair describes its location?

(4, 2)

2. Maria hid the next clue at a location reflected across the *y*-axis. Where is it hidden?

Library

3. She walks 3 blocks east and 2 blocks north to place the next clue. Where is it hidden?

Soccer Field

* Each box represents 2 units

4. The next clue is at a location reflected across the *x*-axis. Where is it hidden?

Playground

5. Maria hid the next clue under a rock by the lake. How many blocks east did she walk to the lake?

6 blocks

6. The final clue tells the hikers to walk 5 blocks north and three blocks east to find the prize. What ordered pair describes the location of the prize? (8, 1)