Name _____

Distance on the Coordinate Plane

Common Core **COMMON CORE STANDARD—6.NS.C.8**
Apply and extend previous understandings of numbers to the system of rational numbers.

Find the distance between the pair of points.

1. (1, 4) and ($^-$3, 4)

$|1| = 1$; $|^-3| = 3$;

$1 + 3 = 4$

4 units

2. (7, $^-$2) and (11, $^-$2)

_____ units

3. (6, 4) and (6, $^-$8)

_____ units

4. (8, $^-$10) and (5, $^-$10)

_____ units

5. ($^-$2, $^-$6) and ($^-$2, 5)

_____ units

6. ($^-$5, 2) and ($^-$5, $^-$4)

_____ units

Write the coordinates of a point that is the given distance from the given point.

7. 5 units from ($^-$1, $^-$2)

($\square$, $^-$2)

8. 8 units from (2, 4)

(2, $\square$)

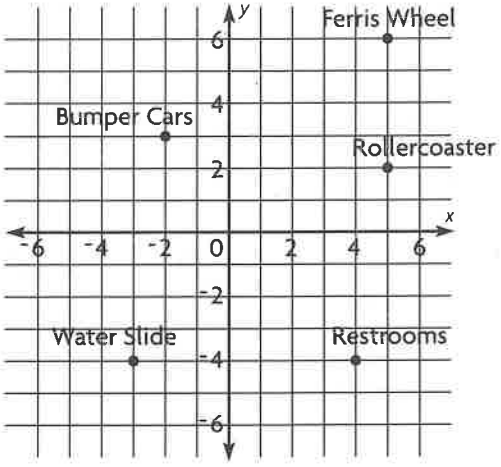
9. 3 units from ($^-$7, $^-$5)

($^-$7, $\square$)

Problem Solving Real World

The map shows the locations of several areas in an amusement park. Each unit represents 1 kilometer.

Amusement Park



10. How far is the Ferris wheel from the rollercoaster?

_____

11. How far is the water slide from the restrooms?

_____

12. WRITE ▸ *Math* Graph the points (23, 3), (23, 7), and (4, 3) on a coordinate plane. Explain how to find the distance from (23, 3) to (23, 7) and from (23, 3) and (4, 3).

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