

# PreAlgebra - Lesson 2-6 Problem-Solving Practice

## Graphing in Four Quadrants

<p>1. Brenda noticed that the reptile building at the zoo was located at the point <math>(-3, 4)</math> on the zoo map. Name the quadrant of the map that the reptile building is in.</p>	<p>2. Joe and his family are visiting their cousins who have just moved to a new house. Joe and his family are located at the origin of the map and their cousins' house is located at <math>(-3, -5)</math>. Assuming that each interval on the map is one city block, how many city blocks in each direction do Joe and his family need to go to get to their cousins' new house?</p>
<p>3. Jimmy made a scale drawing of his back yard on a coordinate grid. The corners of his pool are located at <math>(4, 2)</math>, <math>(4, -2)</math>, <math>(-1, -2)</math>, and <math>(-1, 2)</math>. Name the quadrant in which each point is located.</p>	<p>4. On the map of Janine's hometown, the movie theater is located at <math>(-4, 2)</math>. The bowling alley is located at <math>(4, 2)</math>. What would be a good location for a restaurant that would be the same distance from the theater and the bowling alley? Explain.</p>
<p>5. Lashawn and his friends are planning a trip to an amusement park. They use the map below to plan out their trip to the park.</p> <div data-bbox="284 1302 706 1732" data-label="Figure"> </div> <p>What are the coordinates of the roller coaster and water slide?</p>	<p>6. Refer to the graph in Exercise 5. Which amusement is located at <math>(-3, 2)</math>?</p>