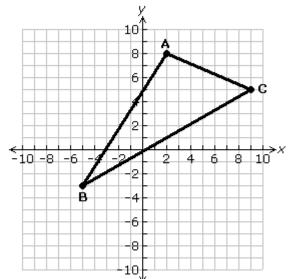
## **Reflections on a Coordinate Plane**

Flossville Park, Bring Your Own Food Task: Place five picnic tables. Windjammer Center, Get Physically Fit Subtask 1: Place a 2<sup>nd</sup> set of tires.

When a figure is **reflected** over a given line, the resulting figure is called its **reflection**. The reflection is the mirror image of the original figure and the line of reflection is the mirror. If you were able to fold the picture along the line of reflection, the original figure and its reflection would align perfectly.

**Example:** A triangle has vertices at point A with coordinates (2, 8), B at (-5, -3), and C at (9, 5). After the triangle is reflected over the *x*-axis, what are the coordinates of its vertices?



Begin by drawing a segment from point A perpendicular to the line of reflection, the *x*-axis. The segment is shown on the graph as a dotted line.

