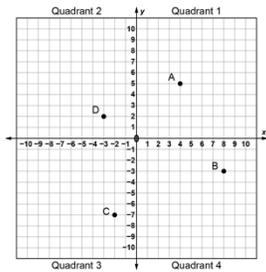# Activity 5 Assessment
Reflecting and Rotating Polygons on a Cartesian Plane
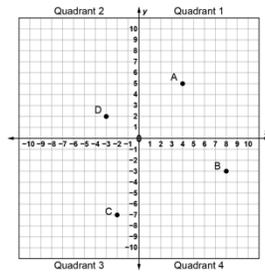
Location and Transformations in the Cartesian Plane

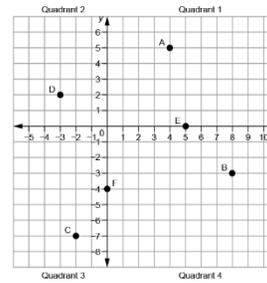| Reads and interprets the Cartesian plane.	Locates points on a Cartesian plane using ordered pairs.	Uses coordinates to plot points on a Cartesian plane.	Models and describes the location of the vertices of a polygon in the Cartesian plane using coordinates.
"The *x*-axis looks like a horizontal number line and the *y*-axis looks like a vertical number line, and the two number lines intersect."	"Point A is at (4, 5), Point B is at (8, -3), Point C is at (-2, -7), and Point D is at (-3, 2)."	"I plotted Point E(5, 0) and Point F(0, −4)."	"I drew a parallelogram. Its vertices are at E(1, 6), F(3, 2), G(−2, −3), and H(−4, 1)."
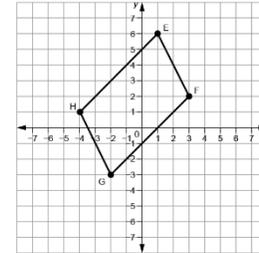
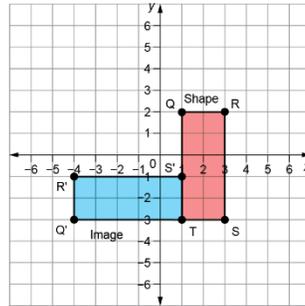## Observations/Documentation

Location and Transformations in the Cartesian Plane (cont'd)

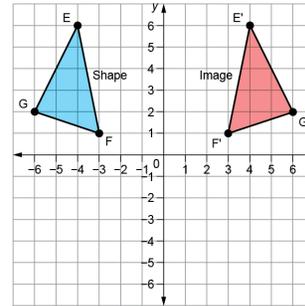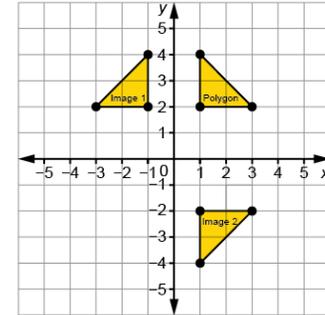| Describes and performs transformations of polygons on a Cartesian plane.	Identifies transformation used to move a polygon on a Cartesian plane.	Relates the coordinates of a polygon and its image after a translation, reflection, or rotation.	Flexibly visualizes and predicts where the image of a polygon will be after a transformation.
"I translated △ABC right 3 squares and down 5 squares to get △A'B'C'."	"The shape was rotated 90° counterclockwise about T to get the image. The shape and its image are congruent but have different orientations."	"After a reflection in the y-axis, the x-coordinates of the vertices change sign, and the y-coordinates stay the same."	"I can picture the Polygon's reflection, Image 1, on the other side of the y-axis, and the Polygon's reflection, Image 2, on the other side of the x-axis. Each time, matching vertices will be the same distance from the line of reflection and the polygon, and its image will have opposite orientations."
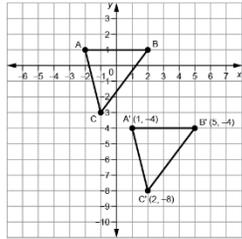
Observations/Documentation

Mathology 6 Alberta
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