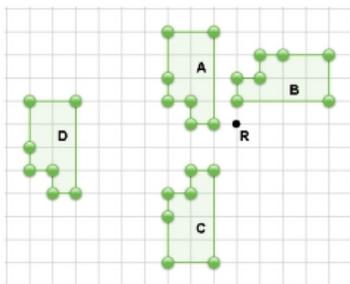# Activity 12 Assessment
Transformations Consolidation
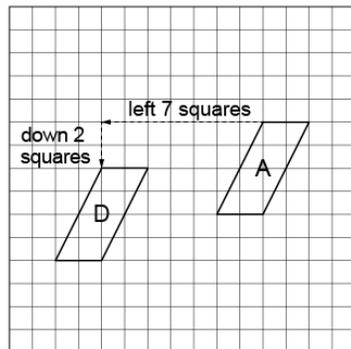
Applying and Visualizing Transformations on a Grid

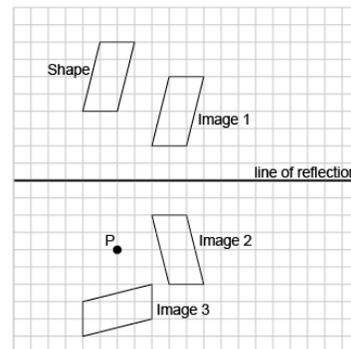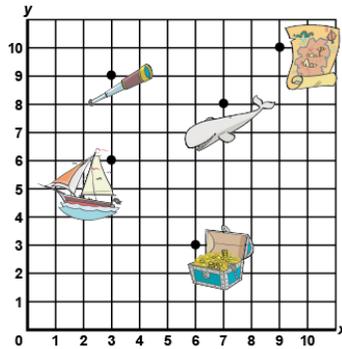| Identifies and describes transformations on a grid.	Describes and performs single transformations on a grid.	Describes and performs combinations of transformations.	Visualizes, describes, and flexibly performs combinations of transformations.
"Shape A to Shape D is a translation. Shape A is reflected in the horizontal line halfway between Shapes A and C to get Shape C. Shape A is rotated 90° clockwise about point R to get Shape B."	"I translated Shape A left 7 squares and down 2 squares to Image D."	"I used a combination of transformations. I translated the Shape right 4 squares, down 2 squares to Image 1; I reflected Image 1 in the line of reflection shown to get Image 2; I rotated Image 2 90° clockwise about point P to get Image 3."	"I visualized the transformations and predicted where the images would be. I performed the transformations to check. I rotated the shape 180° about point P to get Image 1; then translated Image 1 right 4 squares to get Image 2; then reflected Image 2 in the common side to get Image 3. My predictions were correct."

Observations/Documentation

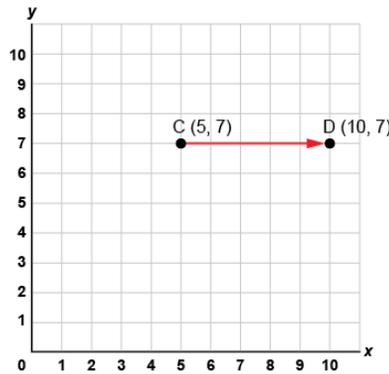|			

Activity 12 Assessment
Transformations Consolidation

Locating and Mapping Shapes in 1st Quadrant of the Cartesian Plane

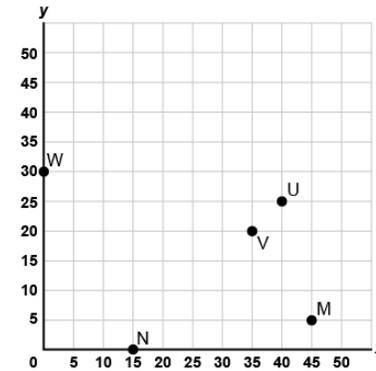| Describes the location of 2-D shape/objects on the grid.	Describes translations of points by describing distance, direction, and coordinates.	Plots and locates points on a grid using various scales and labels the coordinates.

"The treasure chest is located at (6,3)."

"I plotted the point C(5, 7), then translated it right 5 squares to C'(10, 5). The x-coordinate increased by 5."

"To plot each point, I counted by 5s along each axis and labelled the coordinates: W(0,30), N(15,0), V(35,20), U(40,25), M(45,5)."
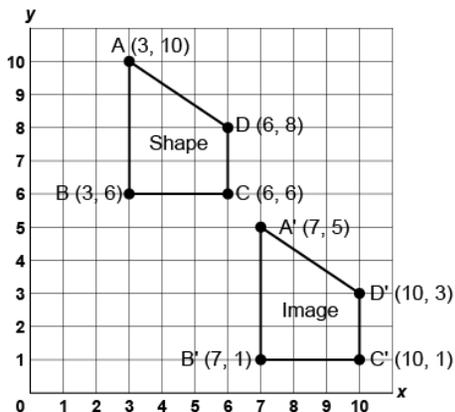
Observations/Documentation

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Locating and Mapping Shapes in 1st Quadrant of the Cartesian Plane (cont'd)

| Translates or reflects shapes and labels coordinates of the image.	Analyzes and locates the vertices of 2-D shapes before and after rotations.	Visualizes and predicts the location of 2-D shapes after transformations using various scales.

"I translated the quadrilateral right 4 squares, then down 5 squares. The x-coordinate of each vertex of the image increased by 4 and each y-coordinate decreased by 5."
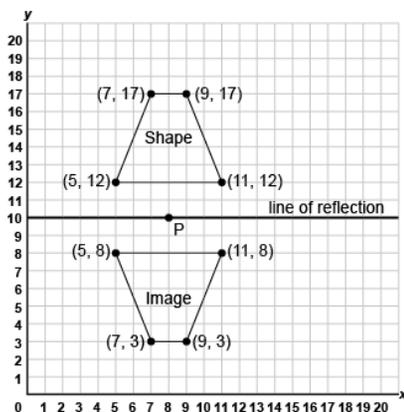
"I rotated the shape 180° about P(8, 10). I chose point P because it is on the line of symmetry of the trapezoid, so when I rotate it 180°, the image is also a reflection."
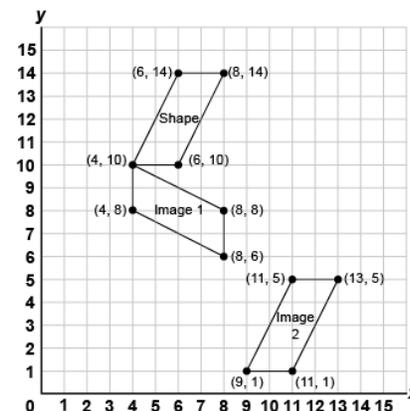
"I visualized and predicted the location of the image after different transformations and identified the coordinates. Image 1 is a rotation 90° clockwise, and Image 2 is a translation right 5 squares, down 9 squares."

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