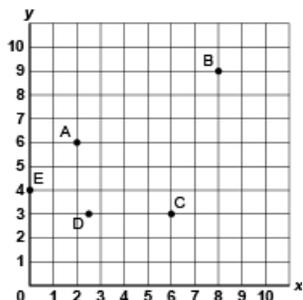


Activity 11 Assessment

Grids and Transformations Consolidation

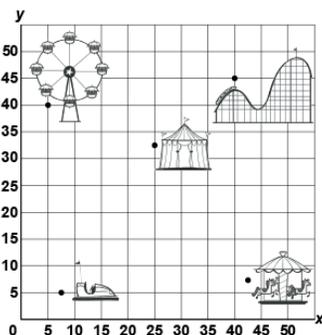
Locating and Plotting Points in First Quadrant of Cartesian Plane

Uses coordinates to describe the location of points on a grid.



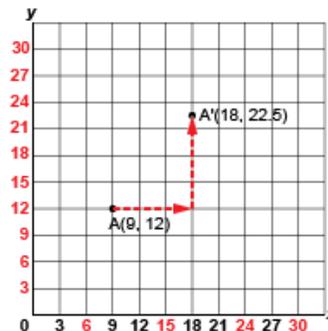
"The coordinates of Point A are (2, 6)."

Plots and identifies points with decimal coordinates on a grid with various scales.



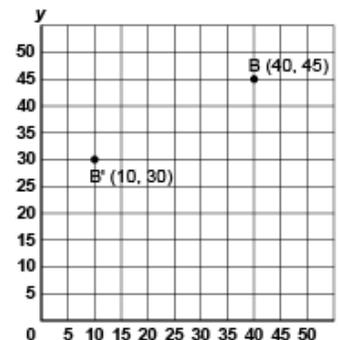
"The bumper cars are at (7.5, 5)."

Translates a point and identifies coordinates of its image.



"I translated Point A right 9 units and up 10.5 units to A'(18, 22.5)."

Flexibly predicts the location and coordinates of a point after a translation.



"The translation was left 30 units and down 15 units. So, I subtracted 30 from the x-coordinate and 15 from the y-coordinate: $(40 - 30, 45 - 15) \rightarrow B'(10, 30)$."

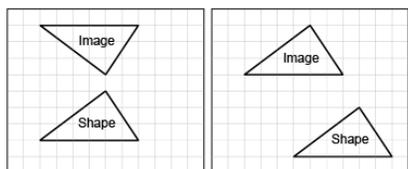
Observations/Documentation

Activity 11 Assessment

Grids and Transformations Consolidation

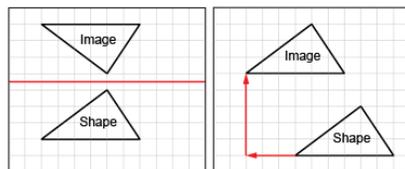
Applying and Visualizing Translations and Reflections

Identifies translations and reflections of 2-D shapes on a grid.



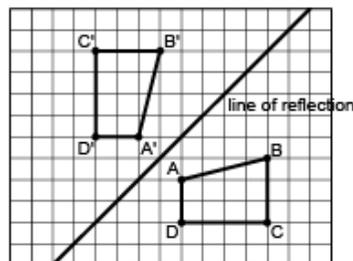
“The first image shows a reflection and the second image shows a translation.”

Identifies the translation/reflection used to move a shape and line of reflection.



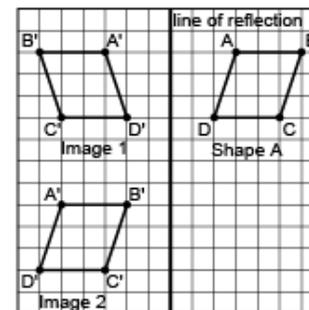
“The first shape was reflected in a horizontal line midway between the shape and its image. The second shape was translated left 3 squares and up 5 squares.”

Describes and performs translations and reflections on a grid using labelled vertices.



“I labelled matching vertices with the same letter. The vertices of the image have prime symbols.”

Visualizes and predicts where image of a shape will be after a translation/reflection.



“I can picture Shape A’s reflection Image 1 on the other side of the line, with matching vertices the same distance from the line of reflection. I can picture moving Shape A left 8 squares and down 7 squares to Image 2.”

Observations/Documentation