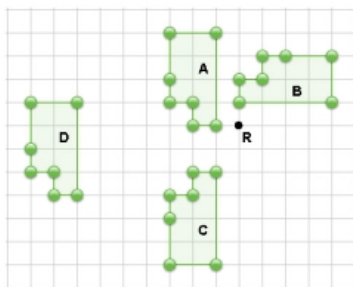


# Activity 7 Assessment

## Rotating 2-D Shapes on a Grid

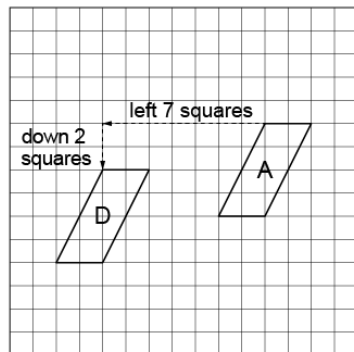
### Applying and Visualizing Transformations on a Grid

Identifies and describes transformations on a grid.



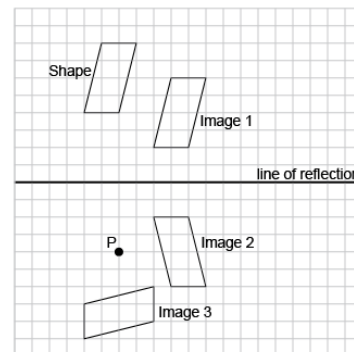
“Shape A to Shape D is a translation. Shape A is reflected in the horizontal line halfway between Shapes A and C to get Shape C. Shape A is rotated  $90^\circ$  clockwise about point R to get Shape B.”

Describes and performs single transformations on a grid.



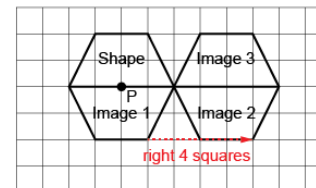
“I translated Shape A left 7 squares and down 2 squares to Image D.”

Describes and performs combinations of transformations.



“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  $90^\circ$  clockwise about point P to get Image 3.”

Visualizes, describes, and flexibly performs combinations of transformations.



“I visualized the transformations and predicted where the images would be. I performed the transformations to check. I rotated the shape  $180^\circ$  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