Geometry

Lesson 7 Assessment Transformations on the Cartesian Plane

Transformations on the Cartesian Plane			
Describes translations, reflections, and rotations about the origin on a Cartesian plane using mapping rules	Describes dilations about the origin on a Cartesian plane using mapping rules Vertices of initial shape: (-2, 2), (-2, -6), (6, -6), and (6, 2). Vertices of image: (-1, 1), (-1, -3), (3, -3), and (3, 1). $(x, y) \rightarrow (0.5x, 0.5y)$	Performs and describes combinations of transformations Triangle A is reflected in the <i>y</i> -axis and translated left 2 and down 5.	Predicts the result of combinations of transformations Triangle A with vertices at (-2, 1), (-6, 1), and (-6, 3) is dilated by a scale factor of 2 and translated left 2 and down 5. Dilation: $(x, y) \rightarrow (2x, 2y)$ Translation: $(x, y) \rightarrow (x - 2, y - 5)$
$(x, y) \rightarrow (x - 20, y - 10)$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Or, $(x, y) \to (2x - 2, 2y - 5)$
Observations/Documentation			