

Rigid Transformations Vocabulary

Word	Definition	Diagram
transformation	When a geometric figure has been _____, _____, _____, or dilated.	
rigid	_____ in size or shape.	
congruent	One figure is called congruent to another figure if there is a _____ of translations, rotations, and reflections that takes the _____ figure onto the _____.	
rotation	A rotation has a center and a directed _____. It takes a point to another point on the circle through the original point with the given center. The 2 radii to the original point and the image make the given angle.	
reflection	A reflection is defined using a _____. It takes a point to another point that is the same distance from the given line, is on the other side of the given line, and so that the segment from the original point to the image is perpendicular to the given line.	

<p>translation</p>	<p>A translation is defined using a directed _____ . It takes a point to another point so that the directed line segment from the original point to the image is parallel to the given line segment and has the same length and direction.</p>	
<p>image</p>	<p>If a _____ takes A to A', then A is the original and A' is the image.</p>	
<p>pre-image</p>	<p>Before a figure has been _____ , the original figure is called the pre-image.</p>	
<p>symmetry</p>	<p>A figure has symmetry if there is a _____ which takes it onto itself (not counting a transformation that leaves every point where it is).</p>	
<p>line of symmetry</p>	<p>A line of symmetry for a figure is a line such that _____ across the line takes the figure onto itself.</p>	
<p>rotation symmetry</p>	<p>A figure has rotation symmetry if there is a rotation that takes the figure onto _____. (We don't count rotations using angles such as 0° and 360° that leave every point on the figure where it is.)</p>	