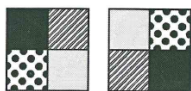





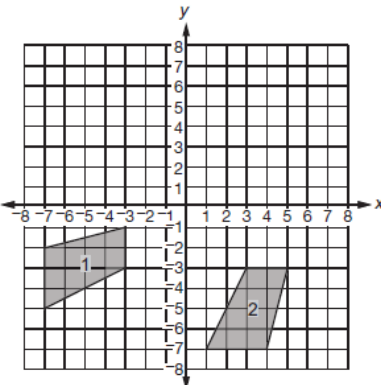
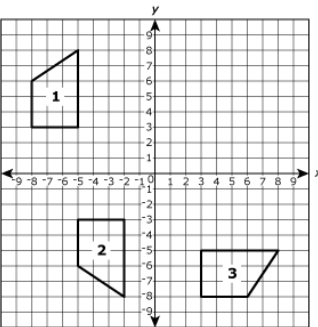


Grade 8 Math		
2012-2013	2013-2014	2014-2015
<p>GLE 25: Predict, draw, and discuss the resulting changes in lengths, orientation, angle measure, and coordinates when figures are translated, reflected across horizontal or vertical lines, and rotated on a grid.</p> <p>Figure 1 has been transformed into Image 1 as shown below.</p>  <p>Figure 1 Image 1</p>  <p>Figure 2</p> <p>If Figure 2 is transformed in the same manner, how should Image 2 appear?</p> <p>A.  C. </p> <p>B.  D. </p>	<p>8.G.2: Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.</p> <p>Use the graph to answer the question.</p>  <p>Which pair of transformation moves quadrilateral 1 to quadrilateral 2?</p> <p>A. reflect it over the line $y = -3$, then rotate it 90° counterclockwise about the origin</p> <p>B. reflect it over the x-axis, then rotate it 180° about the origin</p> <p>C. rotate it 90° counterclockwise about point $(-3, -3)$, then translate it 8 units to the right.</p> <p>D. translate it 8 units to the right, then reflect it over the line $y = -3$</p>	<p>Three congruent figures are shown on the coordinate plane.</p>  <p>Part A</p> <p>Choose a transformation from each list to make the statement true. Figure 1 can be transformed onto figure 2 by first</p> <p>A. reflecting across the x-axis</p> <p>B. rotating 180° clockwise about the origin</p> <p>C. translating 2 units to the left</p> <p>followed by</p> <p>A. reflecting across the y-axis.</p> <p>B. rotating 90° clockwise about the origin.</p> <p>C. translating 3 units to the right.</p> <p>Part B</p> <p>Figure 3 can also be created by transforming figure 1 with a sequence of two transformations. Choose a transformation from each list to make the statement true. Figure 1 can be transformed onto figure 3 by first</p> <p>A. reflecting across the y-axis</p> <p>B. rotating 90° clockwise about the origin</p> <p>C. translating 7 units to the right</p> <p>followed by</p> <p>A. reflecting across the x-axis.</p> <p>B. rotating 180° clockwise about the origin.</p> <p>C. translating 3 units to the left.</p>