

<p><b>Task Model 7</b></p> <p><b>DOK Levels 2, 3</b></p> <p><b>Target G: Determine conditions under which an argument does and does not apply</b></p>	<p><b>Example Item 2 (Grade 8):</b> Primary Target 3G (Content Domain G), Secondary Target 1G (CCSS 8.G.3)</p> <p>A sequence of transformations is applied to a polygon. Identify each sequence of transformations where the resulting polygon has a greater area than the original polygon.</p> <p>A. Reflect over the <math>x</math>-axis, dilate about the origin by a scale factor of <math>\frac{1}{2}</math>, translate up 5 units</p> <p>B. Rotate <math>90^\circ</math> counterclockwise around the origin, dilate about the origin by a scale factor of <math>\frac{3}{2}</math></p> <p>C. Dilate about the origin by a scale factor of <math>\frac{2}{3}</math>, rotate <math>180^\circ</math> clockwise around the origin, translate down 2 units</p> <p>D. Dilate about the origin by a scale factor of 2, reflect over the <math>y</math>-axis, dilate about the origin by a scale factor of <math>\frac{2}{3}</math></p> <p><b>Rubric:</b> (1 point) The student identifies all the correct conditions that make the argument true (e.g., B, D)</p> <p><b>Response Type:</b> Multiple Choice, multiple correct response</p>
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