

Item	Claim	Domain	Target	DOK	CONTENT	MP	Key
#16	3	G	G	3	8.G.A.3	2	See exemplar

1845



A sequence of transformations is applied to a polygon. Select **all** statements which indicate a sequence of transformations where the resulting polygon has an area greater than the original polygon.

- Reflect over the x -axis, dilate about the origin by a scale factor of $\frac{1}{2}$, translate up 5 units.
- Rotate 90° counterclockwise around the origin, dilate about the origin by a scale factor of $\frac{3}{2}$.
- Dilate about the origin by a scale factor of $\frac{2}{3}$, rotate 180° clockwise around the origin, translate down 2 units.
- Dilate about the origin by a scale factor of 2, reflect over the y -axis, dilate about the origin by a scale factor of $\frac{2}{3}$.

Exemplar: (shown at right)

Rubric: (1 point) Student correctly selects the second and fourth statements.

- Reflect over the x -axis, dilate about the origin by a scale factor of $\frac{1}{2}$, translate up 5 units.
- Rotate 90° counterclockwise around the origin, dilate about the origin by a scale factor of $\frac{3}{2}$.
- Dilate about the origin by a scale factor of $\frac{2}{3}$, rotate 180° clockwise around the origin, translate down 2 units.
- Dilate about the origin by a scale factor of 2, reflect over the y -axis, dilate about the origin by a scale factor of $\frac{2}{3}$.