2ACE Exercises 10–13

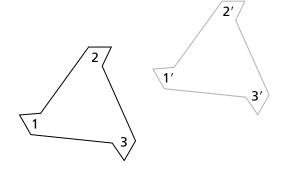
Investigation 2

Kaleidoscopes, Hubcaps, and Mirrors

Exercises 10–13 each give a figure, and its image under a transformation.

- Tell whether the transformation was a **reflection**, a rotation, or a translation.
- Then, indicate the line of reflection, the center and angle of rotation, or the direction and distance of the translation.

10.



Is this a reflection, a rotation, or a translation?

HINT A reflection means that you can draw a line of symmetry that divides the figure into halves that are mirror images.

A rotation turns a figure counterclockwise about a point (the center) to a position in which the figure looks the same as the figure in the original position.

A translation slides each point of a figure a given distance and direction.

If it is a reflection, indicate the reflection line.

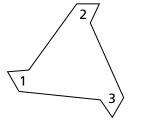
If it is a rotation, indicate the center and angle of rotation.

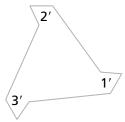
If it is a translation, indicate the direction and distance of the translation.

11. Is this a reflection, a rotation, or a translation?

If it is a reflection, indicate the reflection line.

If it is a rotation, indicate the center and angle of rotation.





If it is a translation, indicate the direction and distance of the translation.

2ACE Exercises 10–13 (continued)

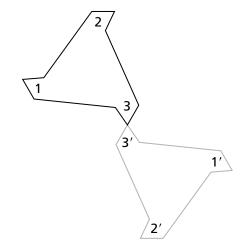
Kaleidoscopes, Hubcaps, and Mirrors

12. Is this a reflection, a rotation, or a translation?

If it is a reflection, indicate the reflection line.

If it is a rotation, indicate the center and angle of rotation.

If it is a translation, indicate the direction and distance of the translation.



13. Is this a reflection, a rotation, or a translation?

If it is a reflection, indicate the reflection line.

If it is a rotation, indicate the center and angle of rotation.

If it is a translation, indicate the direction and distance of the translation.

