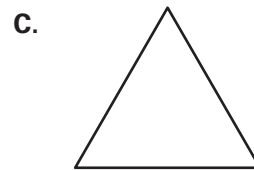
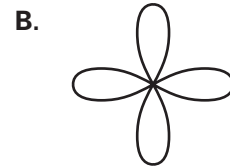
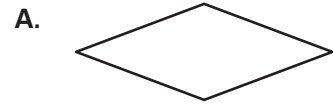


Practice A

For use with pages 633–640

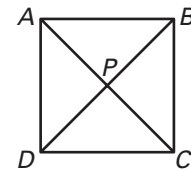
Match the figure with the description of the rotation that maps the figure onto itself.

1. The figure can be mapped onto itself by a clockwise or counterclockwise rotation of 120° about its center.
2. The figure can be mapped onto itself by a clockwise or counterclockwise rotation of 90° or 180° about its center.
3. The figure can be mapped onto itself by a clockwise or counterclockwise rotation of 180° about its center.



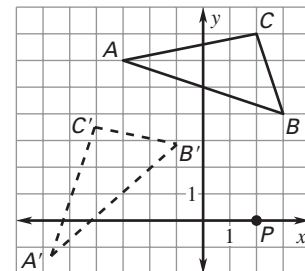
The square at the right has rotational symmetry. Use the figure to complete the statement.

4. A clockwise rotation of 90° about P maps B onto ?.
5. A counterclockwise rotation of ? about P maps A onto D .
6. A clockwise rotation of ? about P maps D onto B .
7. A counterclockwise rotation of 180° about P maps A onto ?.



In the figure at the right, $\triangle ABC$ is rotated about point P .

8. Describe the rotation as *clockwise* or *counterclockwise*.
9. Use a protractor to measure the angle of rotation.



10. Describe the rotational symmetry of the rectangular traffic sign at the right.

