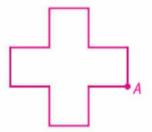


Place the tracing paper over the outline in Step 1. Put your pencil point at the center of the figure to hold the tracing paper in place. Turn the tracing paper clockwise from its original position until the two figures match. Draw and label the new figure in the space

provided.



Step 3 Continue turning the tracing paper until the logo is back to its original position. Does the figure have rotational symmetry? Explain.

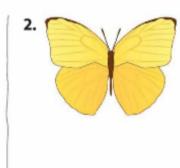
Yes; Sample answer: the figure was turned less than 360°

about its center and still looked like the original.

Work with a partner. Determine whether the figure has rotational symmetry. Write yes or no.

1.





no

3.

yes



Analyze and Reflect

- 4. Reason Inductively The degree measure of an angle through which the figure is rotated is called the angle of rotation. Find the first angle of rotation of the first aid logo by dividing 360° by the total number of times the figures matched. 90°
- 5. List the other angles of rotation of the first aid logo by adding the measure of the first angle of rotation to the previous angle measure.

Stop when you reach 360°. 180°, 270°

6. What is the angle of rotation of each figure in Exercises 1–3? Write no if there is no rotational symmetry.

Exercise 1 180°

Exercise 2 no

Exercise 3 60°



7. Model with Mathematics Draw two figures, one that has rotational symmetry and one that does not. See students' work.



8. Inquiry HOW can you identify rotational symmetry?

Sample answer: You can identify rotational symmetry by turning the figure less than 360° and determining if the figure looks the same as

the original.