

**Rotational symmetry** is often considered aesthetically pleasing to the eye and we can find examples of reflective symmetry in everyday life experiences: art, architecture, markings on an animal, interior design, company logos, and patterns on clothing, just to name a few.

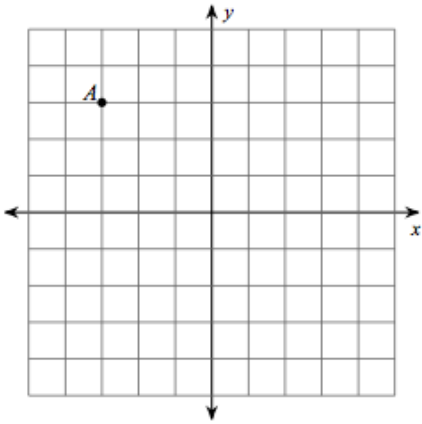
Identify at least 4 items that you notice in the world around you that have rotational symmetry: for example, physical objects, people, pictures in a magazine, artwork on a skateboard, the design of a tattoo, or a company's logo.

Complete the chart below to list the items and describe how it is an example of reflective symmetry.

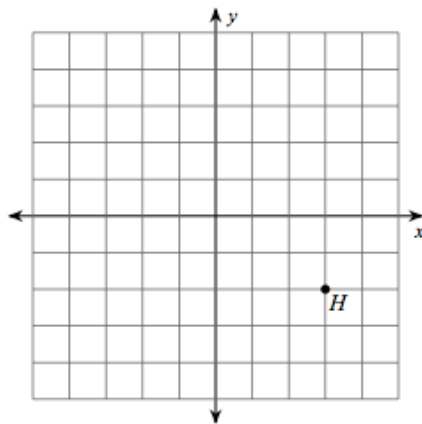
Item	Description of how it is an example of <u>rotational symmetry</u>

Graph the image of the rotation about the given point. Be sure to label your image appropriately.

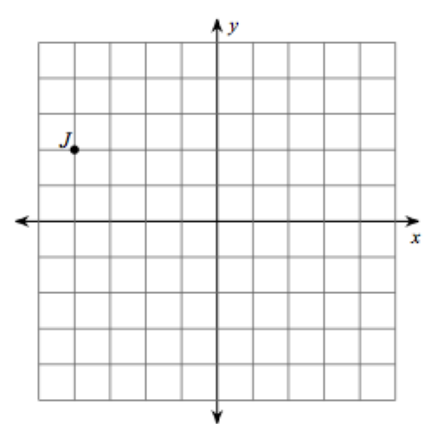
2.  $180^\circ$  about the origin



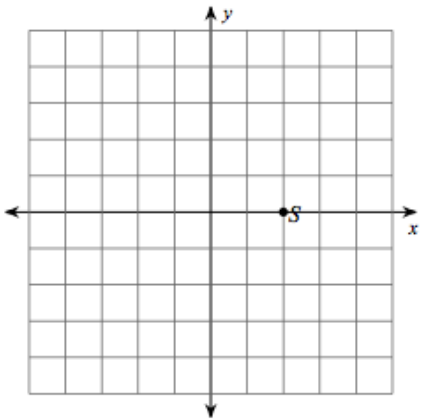
3.  $90^\circ$  counterclockwise about the (1, -2)



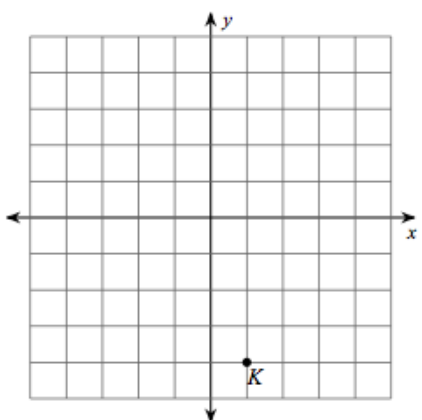
4.  $90^\circ$  clockwise about the origin



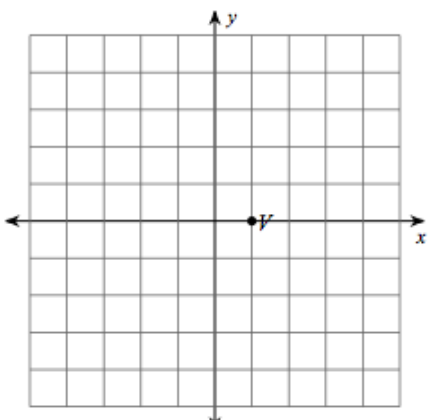
5.  $180^\circ$  about the origin



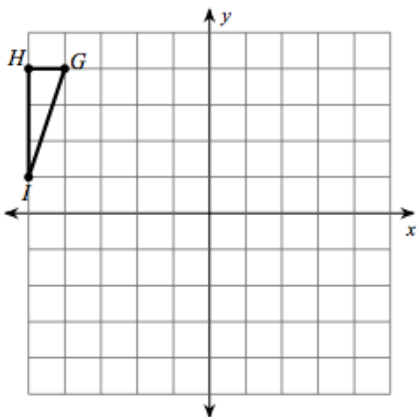
6.  $90^\circ$  clockwise about (2, 0)



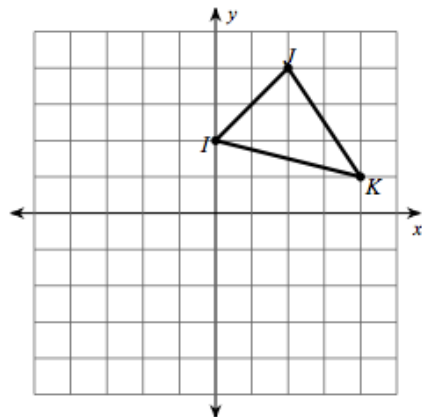
7.  $90^\circ$  counterclockwise about the origin



8.  $90^\circ$  counterclockwise about the origin



9.  $90^\circ$  clockwise about the origin



10.  $180^\circ$  about the origin

