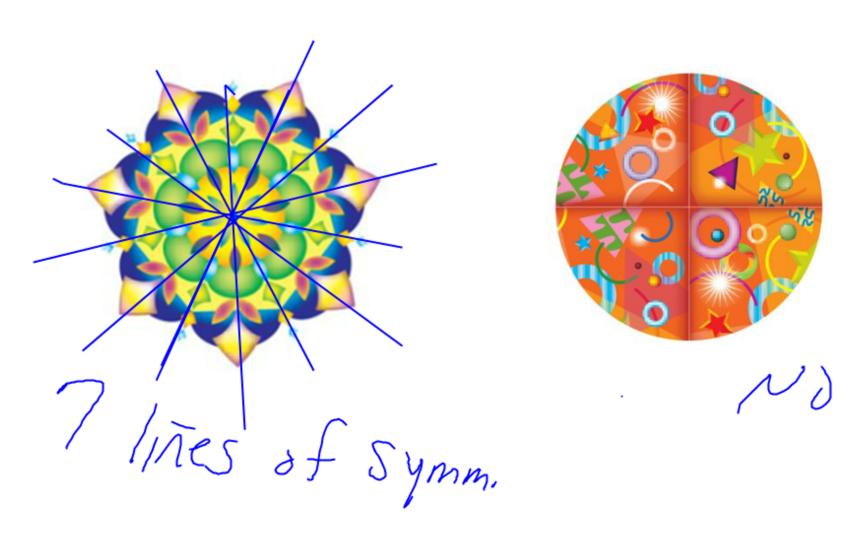
9-5 Symmetry

You will identify line and rotational symmetries in two-dimensional figures.

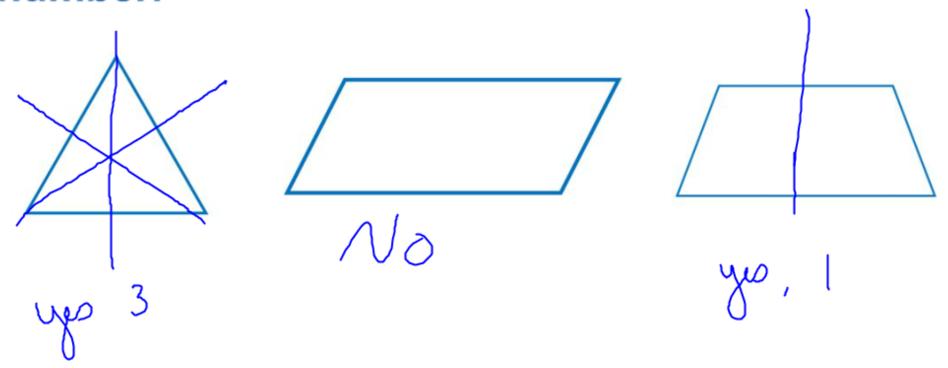
You will identify plane and axis symmetries in three-dimensional figures

every point is mapped to a point gaross a line of reflection

A. KALEIDOSCOPES State whether the object appears to have line symmetry. Write yes or no. If so, draw all lines of symmetry, and state their number.



A. State whether the figure appears to have line symmetry. Write yes or no. If so, state their number.



Rotational Symmetry

if you can map the points by rotating

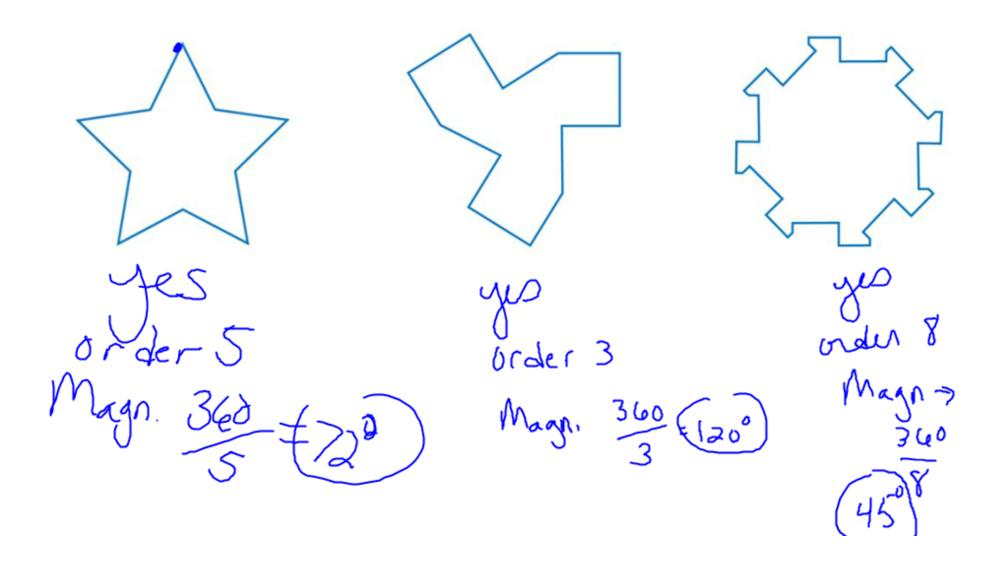
Order of Symmetry

Haf rotations to get (
back to original position
Magnitude of symmetry

degree of rotation 360

onder 7

State whether the figure has rotational symmetry. Write yes or no. If so, locate the center of symmetry and state the order and magnitude of symmetry.

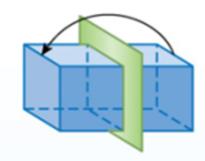


Key Concept

Three-Dimensional Symmetries

Plane Symmetry

A three-dimensional figure has **plane symmetry** if the figure can be mapped onto itself by a reflection in a plane.



Axis Symmetry

A three-dimensional figure has **axis symmetry** if the figure can be mapped onto itself by a rotation between 0° and 360° in a line.



A. State whether the figure has plane symmetry, axis symmetry, both, or neither.

