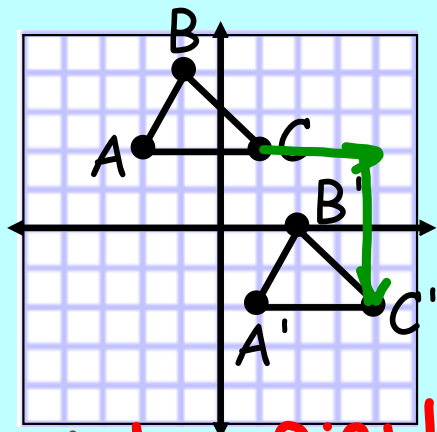
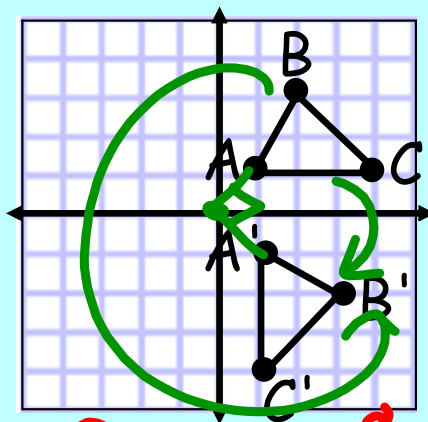


2/27/20 - Warm Up Problem

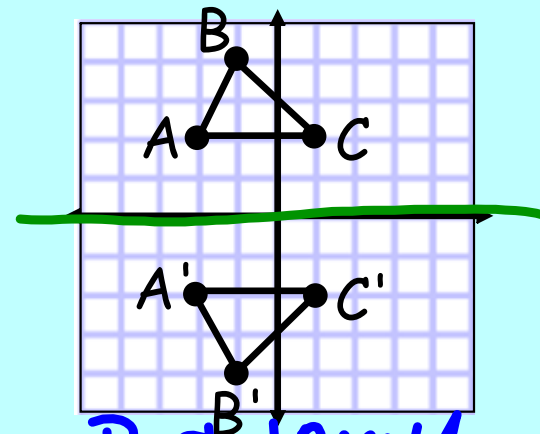
Describe each transformation.



Slide Right 3
down 4



Rotate 90° CW
 270° CCW



Reflected over x -axis

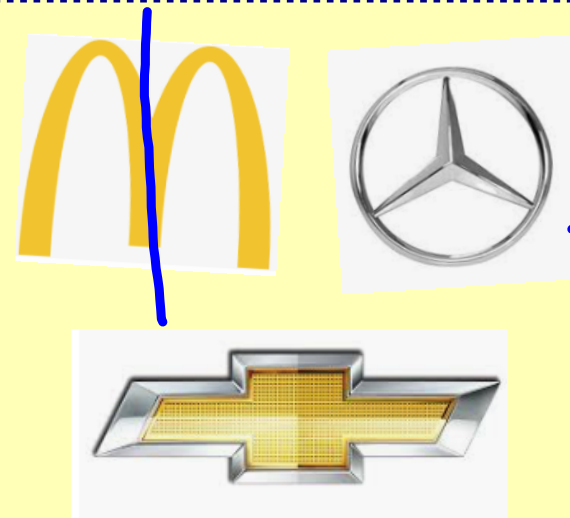
Concept 21 - Symmetry

Goals: Find lines of reflectional symmetry and angles of rotational symmetry

Symmetry: a rigid motion maps part of the figure onto itself

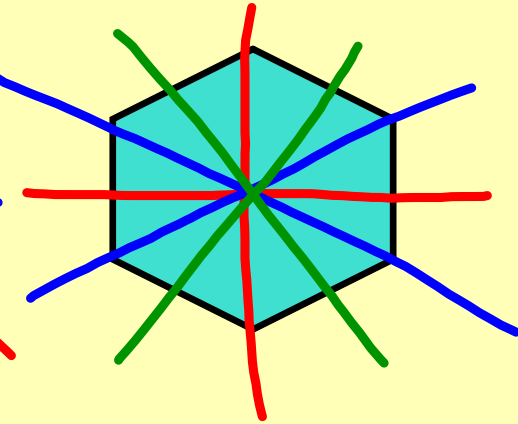
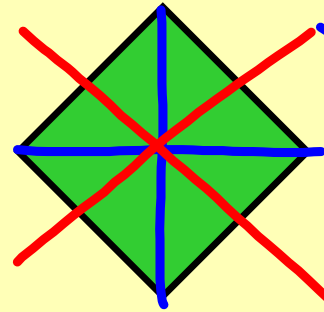
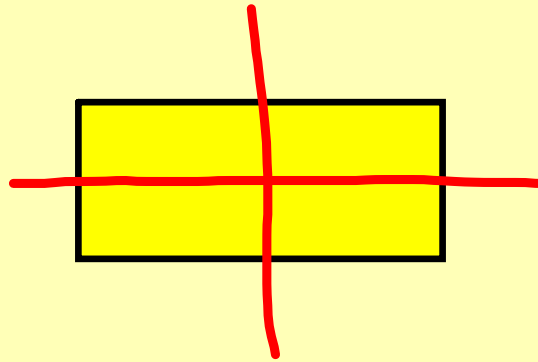
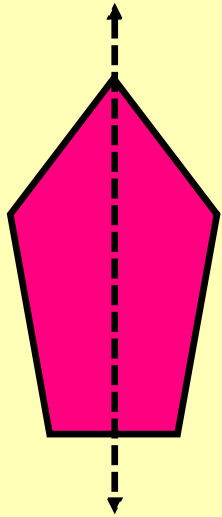
There are two kinds of symmetry:

- reflectional symmetry
- rotational symmetry



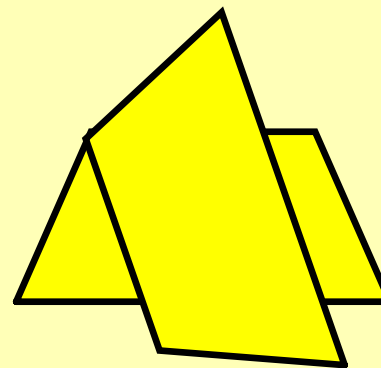
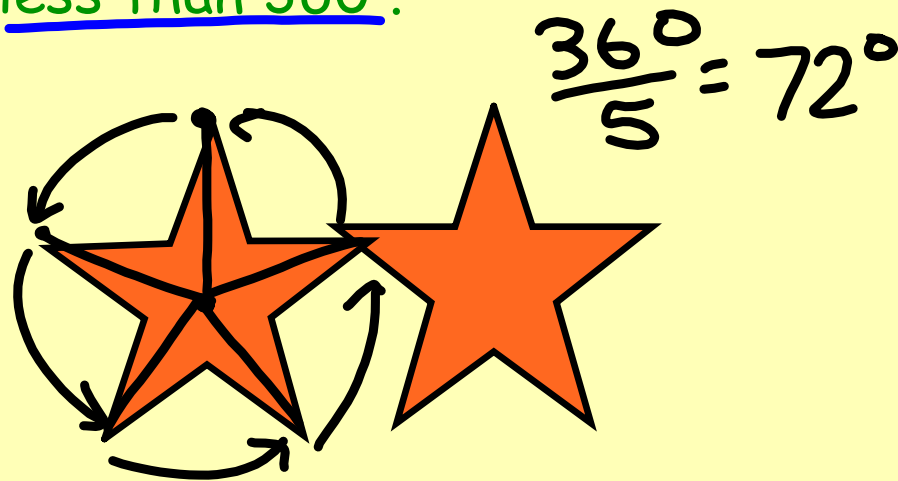
Reflectional Symmetry (line symmetry)

- If a line is drawn through the object, one half is a reflection of the other half.

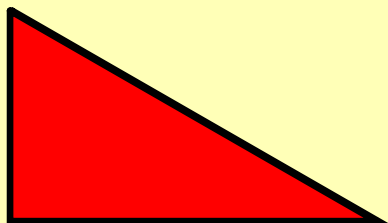


Rotational Symmetry

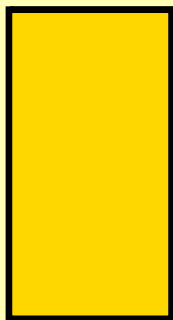
The figure looks the same after being rotated some angle less than 360° .



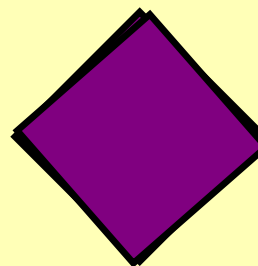
Tell whether the figure has rotational symmetry. If it does, give an angle of rotation.



NO

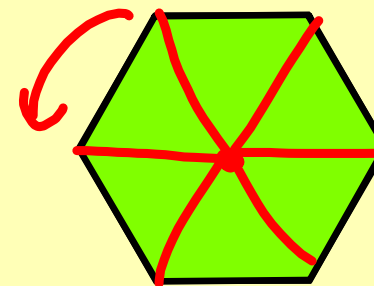


Yes
 180°



Yes
 90°

$\frac{360}{6}$



Yes
 60°