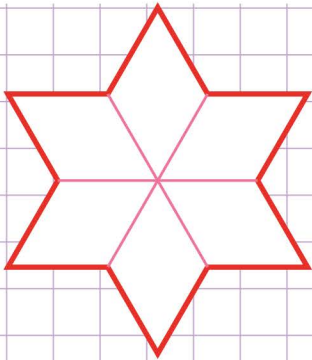


Name: Class:

Rotational Symmetry: amount of rotation.

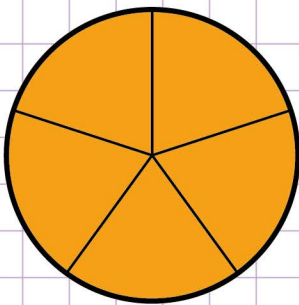


1.

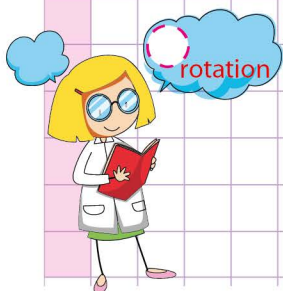


This image has rotational symmetry.
What is the smallest fraction of a full turn you need to rotate for the image to look the same?

2.



This image has rotational symmetry.
What is the smallest number of degrees you need to rotate for the image to look the same?

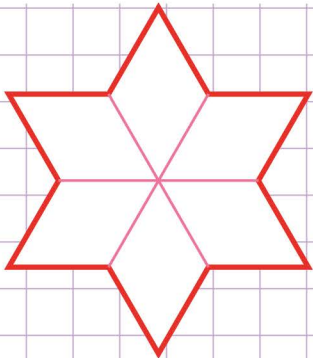


Name: Class:

Rotational Symmetry: amount of rotation.

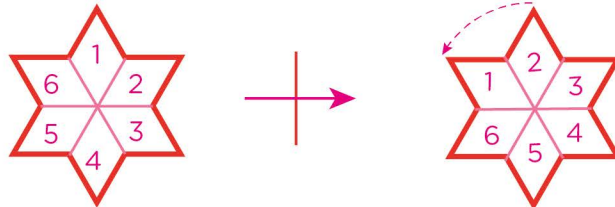


1.



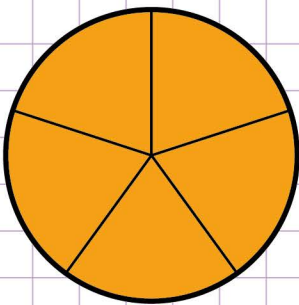
This image has rotational symmetry.
What is the smallest fraction of a full turn you need to rotate for the image to look the same?

- Count the number of sections in the image.
- Rotate the image 1/6 of a full turn. It will look the same.



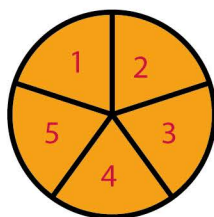
So, 1/6 of a full turn is the smallest amount you need to rotate the image.

2.



This image has rotational symmetry.
What is the smallest number of degrees you need to rotate for the image to look the same?

- Count the number of sections in the image.
- Rotate the image 1/5 times 360° of a full turn.



$$\frac{1}{5} \times 360^\circ = \frac{360}{5} = \frac{72 \times 5}{5} = 72^\circ$$

So, 72° of a full turn is the smallest amount needed to rotate the image.

rotation

