REVIEW: Rotational Symmetry

Name _____

Key Concept and Vocabulary

Rotate about point *P*.
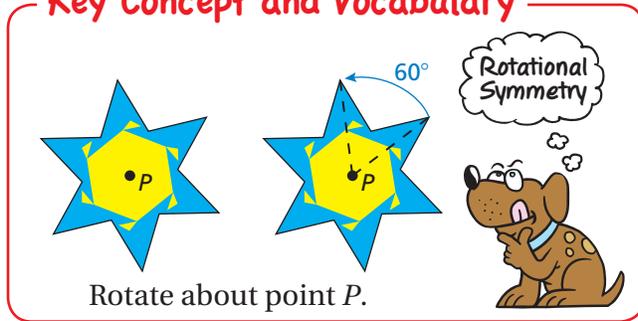
Visual Model

If a figure has rotational symmetry, you can rotate it about a point and the figure will coincide with itself.

MOM

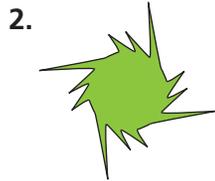*(Rotate this worksheet 180°. The word will be the same.)*

Skill Examples

1.

Rotational symmetry
120°, 240°

2.

Rotational symmetry
90°, 180°, 270°

Application Example

3. Why are traditional playing cards made with rotational symmetry?

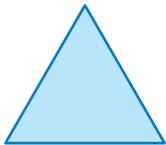⋮ So that when you rotate them 180°, you see the same picture.

PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

List the angles (less than 360°) that represent rotational symmetry.

4. Equilateral Triangle

_____
_____

5. Square

_____
_____

6. Regular Pentagon

_____
_____

7. Regular Hexagon

_____
_____
_____

8. Rectangle

_____
_____
_____

9. Equilateral Trapezoid

_____
_____
_____

10. **AMBIGRAM** A rotational ambigram is a word that has rotational symmetry. Which of the following ambigrams contain the same word when rotated? _____

(a)

(b) **WOW**

(c)

Topic 14.4