Rotational and reflection

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C. Mark each sentence with a True (\checkmark) or False (X):

- 1. Every figure that has reflection symmetry also has rotational symmetry._____
- 2. A rectangle has two lines of symmetry and rotational symmetry of order 2. ____
- 3. Reflection symmetry means one half of the figure is a mirror image of the other. _____
- 4. The letter "Z" has both reflection and rotational symmetry.
- 5. A circle has both infinite lines of reflection symmetry and rotational symmetry.

D. Figure out the answers to these questions:

- 1. Draw a figure that has reflection symmetry but no rotational symmetry.
- 2. Identify a real-life object that has both reflection and rotational symmetry.
- 3. How many lines of symmetry does a regular hexagon have? What is its rotational symmetry order?
- 4. Can a figure have rotational symmetry but no reflection symmetry? Give an example.
- 5. Draw the English letters that have both vertical reflection and rotational symmetry of order 2.

E. Challenge yourself with these questions:

- 1. Draw a kite shape and identify whether it has reflection symmetry, rotational symmetry, or both.
- 2. Fold a square along its diagonal. Does it show reflection symmetry? Justify
- 3. Identify the symmetry types in the letter "S".
- 4. Make a pattern using alphabets with both rotational and reflection symmetry.
- 5. Find three geometrical figures with only reflection symmetry and not rotational symmetry.