

Symmetry of Quadrilaterals

Suppose shapes A through J are wooden puzzle pieces.

Rotational Symmetry

1. Which shape(s) can fit into its puzzle slot in only **one** way? Assume all you do is turn it. _____
Tip: Use patty paper to trace the shape, then rotate it about its center point until it fits again.
2. For each of the remaining shapes, find
 - a) how many total ways the shape can fit into its puzzle slot. Again assume all you do is turn it.
 - b) its angle of rotation (the smallest angle you would need to turn the shape so that it again fits into its puzzle slot)

Reflective Symmetry

3. List all of the shapes, if any, which have **no** lines of symmetry. _____
4. Find the number of lines of symmetry for the remaining shapes (Use a Mira or paper folding).

