

## Symmetry of Regular Polygons

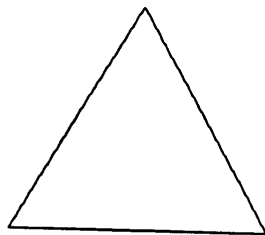
Suppose the regular polygons below are wooden puzzle pieces.

### Rotational Symmetry

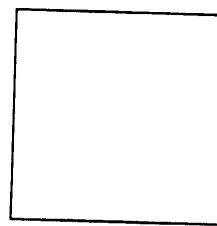
1. Find how many total ways each shape can fit into its puzzle slot. Assume all you do is turn it.
2. Find its angle of rotation (the smallest angle you would need to turn the shape so that it again fits into its puzzle slot)

### Reflective Symmetry

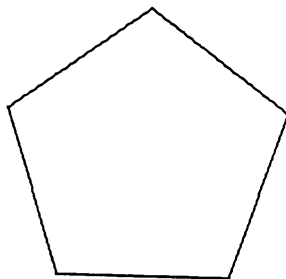
3. Find the number of lines of symmetry for each shape. (Use a Mira or paper folding)



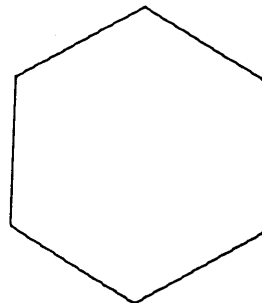
equilateral triangle



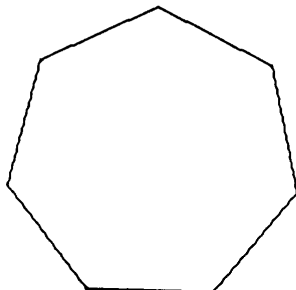
square



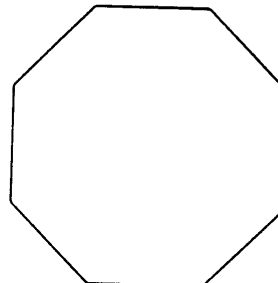
regular pentagon



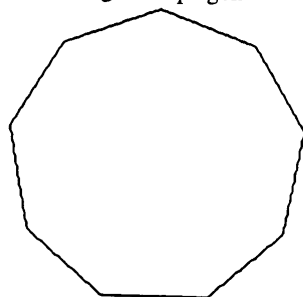
regular hexagon



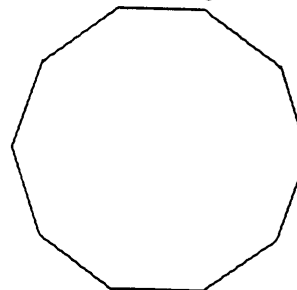
regular septagon



regular octagon



regular nonagon



regular decagon