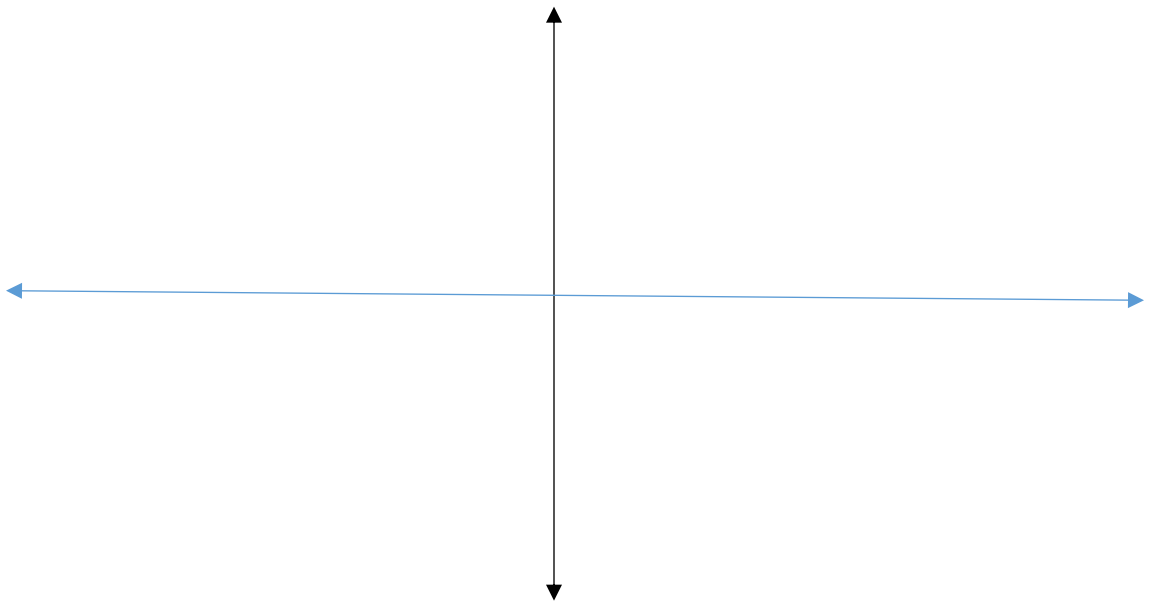


### ACTIVITY 1 Investigating Reflections

Materials: Pattern Blocks (one of each)

Make a pattern or design using at least 3 of the pattern blocks; be creative! Then reflect the diagram across the horizontal and vertical lines below. Use pattern blocks to build the reflected images, tracing around them very carefully. Make clear what is your original object and reflected images.



### ACTIVITY 2 Rotational Symmetry

Materials: Tracing paper, pattern blocks

1. Take a yellow hexagon from a set of pattern block, and trace it onto a piece of paper. Then place the hexagon on top of the tracing, making a tiny mark on one of the vertices. Rotate the pattern block until it again coincides with the traced image underneath. What degree(s) of rotational symmetry does a regular hexagon have?



2. Examine each of the other pattern blocks. Do they all have rotational symmetry? If not, say so. If they do have rotational symmetry, determine the angles of rotations necessary to rotate the pattern block back onto itself. Your drawings can be on another page or the back of this page.