

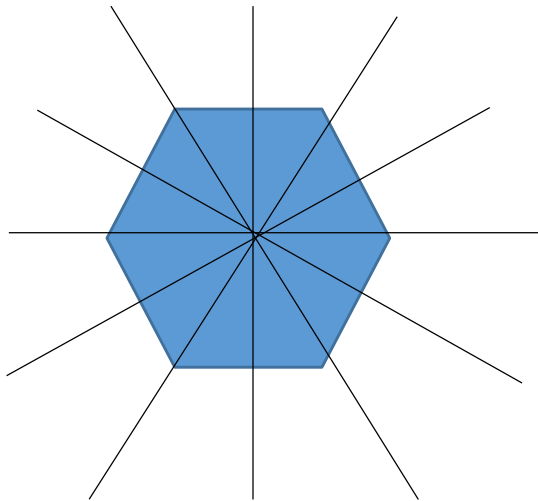


## 62 - Symmetry

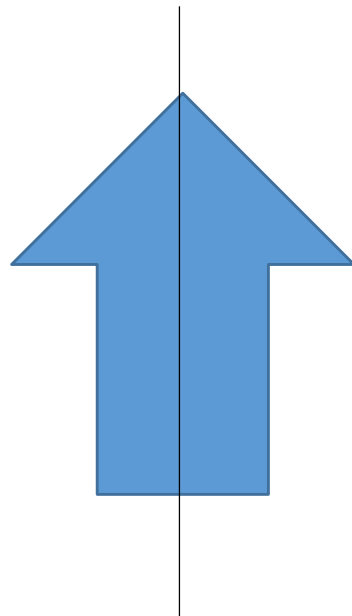
### Line Symmetry

A shape has line symmetry if a line can be drawn through the shape and the image each side of this line is exactly the same.

This line is the **line of symmetry** or **mirror line**.



Lines of symmetry = 6



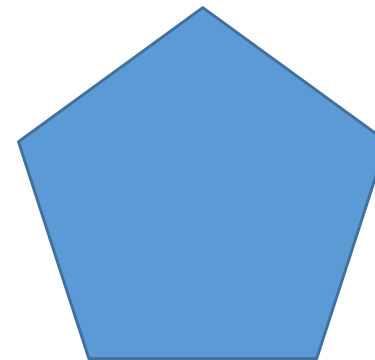
Lines of symmetry = 1

### Rotational Symmetry

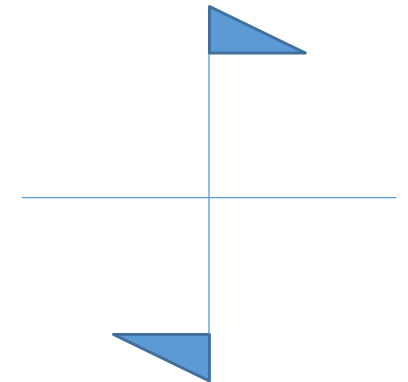
A shape has rotational symmetry if it can be rotated (or turned) around a point to look exactly the same in a new position.

The **order of rotational symmetry** is the number of new positions in which the shape will look exactly the same.

One way to find the order of rotational symmetry of a shape is to draw the shape on tracing paper and count the number of positions in which the shape is exactly the same as you turn the tracing paper through one complete turn (360°).



Order of rotational symmetry = 5



Order of rotational symmetry = 2

Linked Prior Topics  
Shapes

Vocabulary  
Symmetry, line, rotational, order

Linked Future Topics  
Transformations, graph transformations