
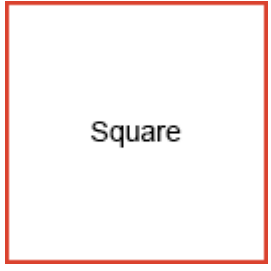





FLIPPING AND TURNING

Are rotational symmetry and line symmetry related? As you complete the following tasks look for any patterns or relationships between the line symmetry and the rotational symmetry for shapes.

TASK 1 Investigate symmetry in shapes

Complete the table by entering the order of rotational symmetry and the number of lines (axes) of symmetry for each shape.

Shape	Order of rotational symmetry	Number of lines of symmetry
 <p>Rhombus</p>	2	2
 <p>Square</p>		
		
		
		

TASK 2 Draw shapes with rotational and line symmetry

Try drawing shapes that fit each of the following symmetry conditions. If you think that any of them is not possible, write **Impossible** in the space for your drawing.

Shape	Order of rotational symmetry	Number of lines of symmetry
	3	3
	2	0
	1	1
	0	2

Were any of these shapes impossible to draw? Explain your reasons.

TASK 3 Build a portfolio of shapes with rotational symmetry

Search through magazines and the Internet to find at least five pictures of shapes that have rotational symmetry to glue into your notes.

Write the order of rotational symmetry and number of lines of symmetry beside each shape.