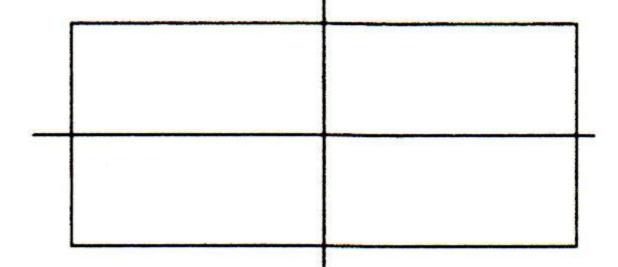
Symmetry

Symmetry: Symmetry is where a shape or picture can be put in different positions that look exactly the same. There are three types of symmetry.

1. Line Symmetry- Draw a mirror line (or more than one) across a picture and both sides will fold exactly together.



2. Plane Symmetry- The flat shapes have mirror line but solid 3-D objects have a plane of symmetry and shapes on both sides must be exactly same.

3. Rotational Symmetry- When you can Rotate the shape or drawing into different positions that all look exactly the same. (eg.)

Regular Polygon- A regular polygon is one where all the sides and angles are the same.

Triangle (3 equal sides)	Square (4 equal sides)	Hexagon (6 equal sides)	
Lines of symmetry- 3	Lines of symmetry- 4	Lines of symmetry- 6	
Rotational symmetry- order 3	Rotational symmetry- order 4	Rotational symmetry- order 6	

Exercise: 12

Q1. Mark in all the lines of symmetry. Also say what the rotational symmetry is for each one.

Letters	Reflective Symmetry	Rotational symmetry	Letters	Reflective Symmetry	Rotational symmetry
			S		
T			M		
K					

Q2. Draw and following sha		nes of symmet	try and order	of rotational sy	mmetry in the	
a) Rectangle			b) Square			
c) Equilateral Triangle			d) Regular Pentagon			
Q3. Write the table.	Reflective sy	mmetry and t	the Order of t	he rotational sy	mmetry in the	
Figures	Reflective Symmetry	Rotational	Figures	Reflective Symmetry	Rotational	
					Syrinitetty	
Q4. How man			e order of rot	ational symme	try are there in	
Polygon	No. of side	No. of sides Reflective S		ymmetry Rotational Symmetry		
Triangle						
Square						
Rectangle						
Parallelogram	1					
Rhombus						
Kite						
Octagon						
Hexagon						