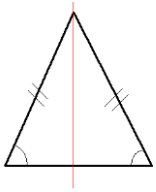
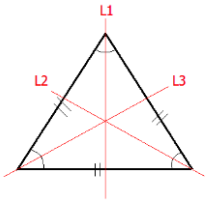
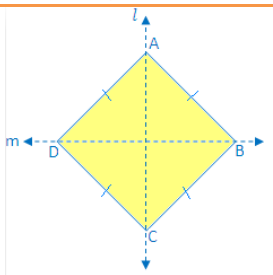
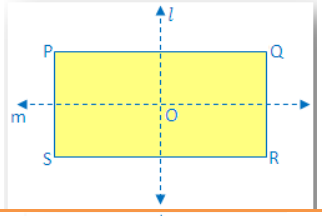
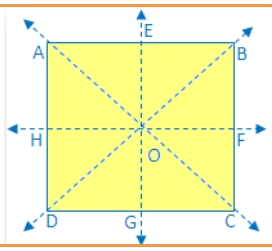
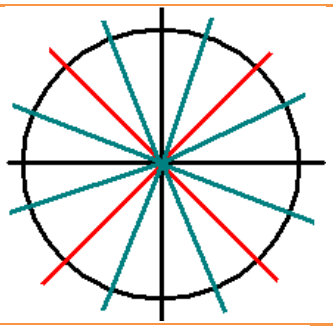
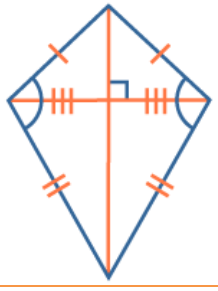
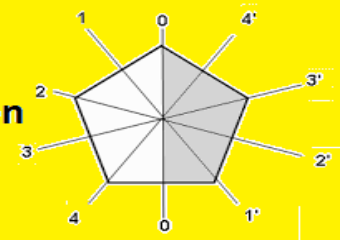
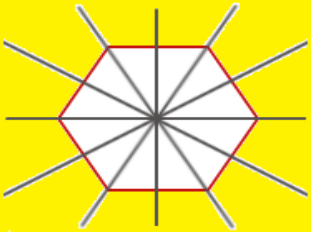
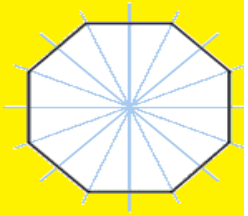
SYMMETRY

Line of Symmetry: A line that divides a figure into two parts such that, when the figure is folded along the line, the two parts of the figure coincide.

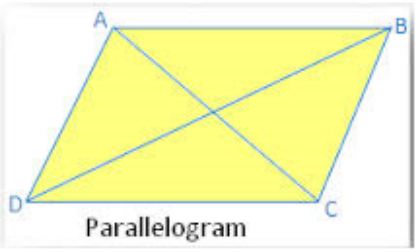
Figures	No . of Lines symmetry	Lines of Symmetry
Isosceles Triangle	**1**	
Equilateral Triangle	**3**	
Rhombus	**2**	
Rectangle	**2**	
Square	**4**	

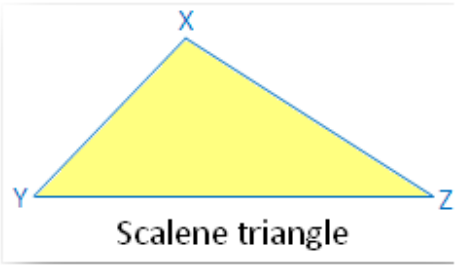
Circle	**Infinite**	
Kite	**1**	

Polygon with n sides has n lines of symmetry

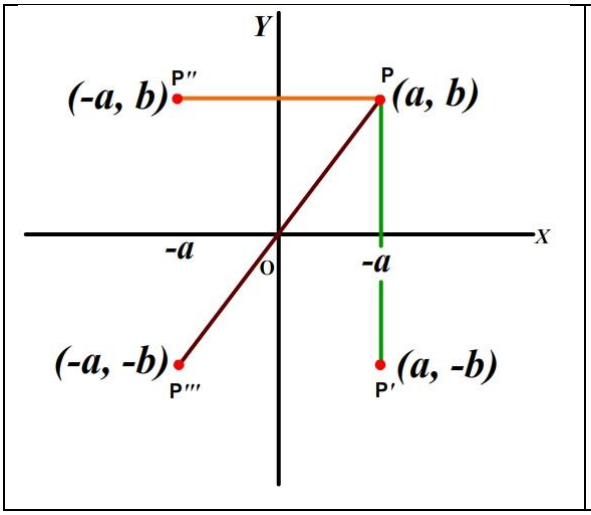
	Pentagon	Hexagon	Octagon
Polygon			
Lines of Symmetry	5	6	8

No line of symmetry





Reflection



Reflection of a point P

In the line y = 0 i.e. in the x-axis

The mirror image of the point P (a, b) is P' (a, -b)

The sign of its ordinate changes

In the line x = 0 i.e. in the y-axis

The mirror image of the point P (a, b) is P'' (-a, b)

The sign of its abscissa changes

In the origin

The mirror image of the point P (a, b) is P''' (-a, -b)

The sign of its ordinate and abscissa changes