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(Affiliated to CBSE up to +2 Level)

Class:7th

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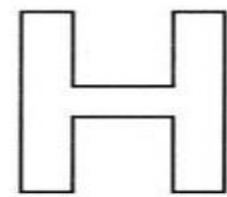
Sub.: Mathematics

Fill In The Blanks

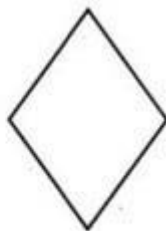
1. Rotation turns an object about a fixed point. This fixed point is called
2. Order of rotational symmetry of a circle is
3. Rhombus is a figure that haslines of symmetry and has a rotational symmetry of order
- 4..... is a figure that has neither a line of symmetry nor a rotational symmetry.
5. There is/are lines of symmetries in an isosceles triangle.

True(T) Or False(F)

1. A regular pentagon has no lines of symmetry.
2. A scalene triangle has no line of symmetry.
3. Mirror reflection always leads to symmetry.
4. The number of lines of symmetry of a regular polygon is equal to the vertices of the polygon.
5. An angle has two line symmetry.



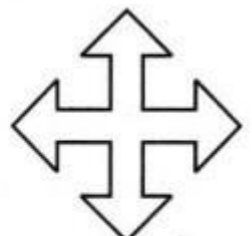
(i)



(ii)



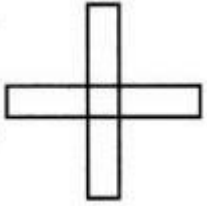
(iii)



(iv)

Short Answer Type Questions

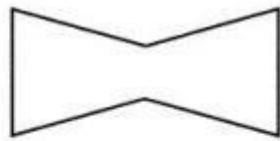
1. Angle of rotation of a figure is 40° . What is the number of lines of symmetry.
2. What is the centre of rotation of a an equilateral triangle?
3. In the given figure:
 - (a) Find the order of rotational symmetry.
 - (b) Find the degree measure of the angle of rotation.



4. Draw all lines of symmetry for each of the following figures given below:



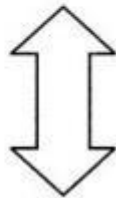
(i)



(ii)



(iii)



(iv)

Long Answer Type Questions

1. After rotation by 60° about a centre, a figure looks exactly the same as its original position. At what other angles will this happen for the figure?
2. What letters of the English alphabet have reflectional symmetry (i.e; symmetry related to mirror reflection) about?
 - (a) A vertical mirror
 - (b) A horizontal mirror
 - (c) Both horizontal and vertical mirrors
3. What other name can you give to the line of symmetry of
 - (a) an isosceles triangle
 - (b) a circle