BAL BHARATI PUBLIC SCHOOL(GRHM)
CLASS VII
MATHS
ASSIGNMENT NO. - 4
CHAPTER NO. 13
SYMMETRY
Formative Assessment:2

Q1) Which of the following has a horizontal line of symmetry:

     a) **P**   b) **3**   c) **M**   d) **W**

Q2) What is the number of lines of symmetry of a regular pentagon?

     a) 5   b)4   c)3   d)2

Q3) A rhombus is symmetrical about its:

     a) Diagonals   b) sides   c) angles   d) none of these.

Q4) The figure has   has a rotational symmetry of order:

     a) 2   b) 3   c)5   d)6

Q5) In the word ' MATHS' which letter shows rotational symmetry:

     a) M   b) A   c) H   D)S

Q6) List any five symmetrical objects from your practical life. Draw their pictures also.

Q7) List all the letters of English alphabets and show how many of them
     have :   1) vertical lines of symmetry
               2) horizontal lines of symmetry
               3) both lines of symmetry.
               4) unlimited lines of symmetry.
               5) 4 lines of symmetry
               6) no lines of symmetry.

Q8) Draw a rough figure of the following shapes and show how many
     lines of symmetry they possess :
        1) scalene triangle
        2) isosceles triangle
        3) equilateral triangle
        8) kite
        9) line
        10) line segment

11) angle
12) semi circle
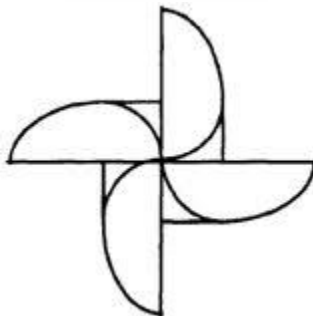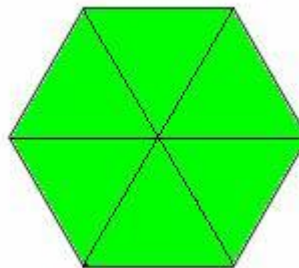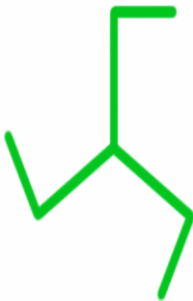13) circle
14) arrow head

Q9)   Fill in the blanks:
1) A rectangle has --------- lines of symmetry.
2) A regular hexagon has --------- lines of symmetry.
3) --------------- has 3 lines of symmetry.
4) A ------------ triangle has no lines of symmetry.
5) A rhombus has -------------- lines of symmetry where as a square
has ----------- lines of symmetry.
6)A kite has ----------- lines of symmetry.

Q10) List the numbers from 0 to 9 and show how many of them are
symmetrical . Also draw there axis of symmetry.

Q11)State the order of rotation and the angle of rotation of the following :
a) Square   b) equilateral triangle   c) rhombus   d)alphabet: N, H,
I,X,W,M   e) rectangle

Q12) State the order of rotation and the angle of rotation of the following
figures:

Q13) What is the order of rotation and the angle of rotation of a ceiling fan with :
(i) 3 blades   (ii) 4 blades
4) square
5) rectangle
6) parallel lines   7) rhombus