



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:

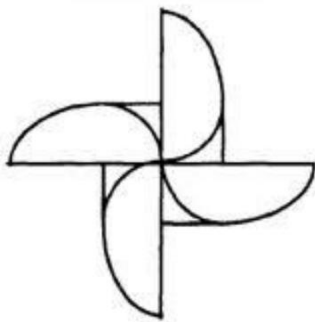
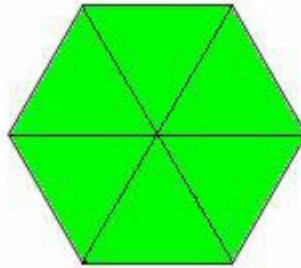
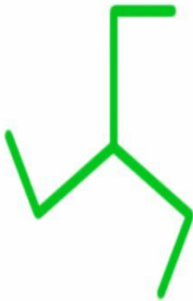
- 1) A rectangle has ----- lines of symmetry.
- 2) A regular hexagon has ----- lines of symmetry.
- 3) ----- has 3 lines of symmetry.
- 4) A ----- triangle has no lines of symmetry.
- 5) A rhombus has ----- lines of symmetry where as a square has ----- lines of symmetry.
- 6) A kite has ----- lines of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