# ST. LAWRENCE HIGH SCHOOL

## A JESUIT CHRISTIAN MINORITY INSTITUTION

**Sub: Algebra and Geometry**       **Class: 7**        **Date: 09.11.20**
**Duration: 40 min**        **Worksheet Solution 02**        **Full Marks: 15**
**Symmetry**

**Choose the Correct options:**

1. Which of the following letters of English alphabet has reflectional symmetry about a vertical mirror?
    **a. W**
    b. J
    c. Z
    d. P

2. Which of the following letters of English alphabet has reflectional symmetry about a horizontal mirror?
    **a. H**
    b. K
    c. M
    d. W

3. Which of the following letters of English alphabet has reflectional symmetry about both horizontal and vertical mirrors?
    **a. O**
    b. Y
    c. T
    d. L

4. The shape which has both line and rotational symmetry of order more than 1 is
    a. isosceles triangle
    b. rhombus
    c. scalene triangle
    d. **square**

5. Which of the following alphabets has no line of symmetry?
    a. A
    b. B
    **c. P**
    d. O

6. Which of the following triangles has no line of symmetry?
    a. Equilateral triangle
    b. Isosceles triangle
    **c. scalene triangle**
    d. All of these

7. What is the order of rotational symmetry of David's star (hexagram)?
    a. 3
    b. 4
    **c. 6**
    d. 12

8. What is the other name for a line of symmetry of a circle?
    a. arc
    b. segment
    **c. diameter**
    d. radius

9. What is the order of rotational symmetry of the English alphabet Z?

Nilanjana Bhadra

a. 0
b. 1
**c. 2**
d. 3

10. Which of these letters has only rotational symmetry?
    **a. S**
    b. E
    c. B
    d. P

11. How many lines of symmetry are present in the isosceles trapezium?
    **a. 1**
    b. 2
    c. 3
    d. 4

12. Which of the following has rotational symmetry and point symmetry but no linear symmetry?
    a. isosceles triangle
    **b. Parallelogram**
    c. Kite
    d. Semicircle

13. Which symmetry is present in square, rectangle, hexagon and parallelogram?
    a. Linear symmetry
    b. Rotational symmetry
    c. Point symmetry
    d. **All of these**

14. Which of the following figure is not symmetric about a horizontal plane?
    a. C
    **b. V**
    c. B
    d. Q

15. Which of the following figure is symmetric about a vertical plane?
    a. P
    b. Q
    c. Z
    d. **M**