ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

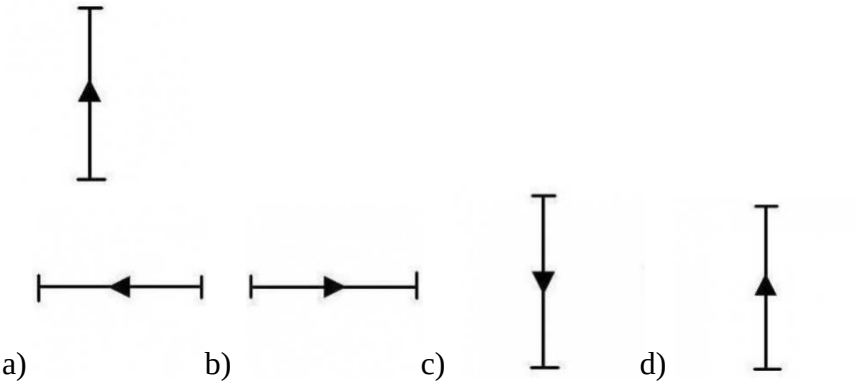
Sub: Algebra Geometry **Class: 7** **Date: 08. 06.20**

Duration: 40 min **Worksheet 26** **Full Marks: 15**

ROTATIONAL SYMMETRY

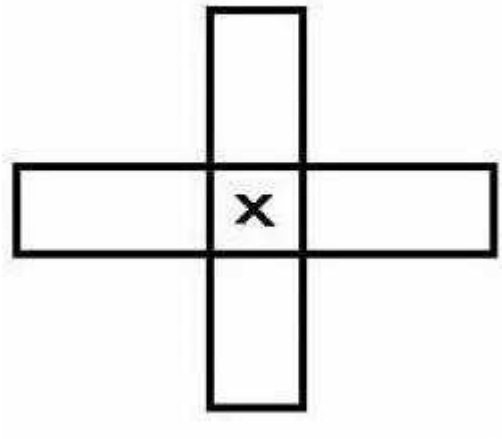
Choose the Correct options:

1) In the figure below, shows the original position of letter I. Which of the following figures shows the rotational symmetry of letter I when it is rotated through 180^{O}?



a) b) c) d)

2) The order of rotational symmetry of the given figure is ____.

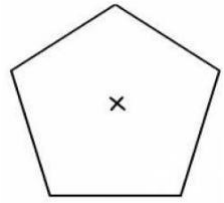


a) 2 b) 3 c) 5 d) 4

3) The order of rotational symmetry of an equilateral triangle is ____.

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

4) The order of rotational symmetry of the given figure is ____.

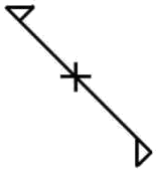


a) 2 b) 4 c) 3 d) 5

5) An isosceles triangle has rotational symmetry of order ____.

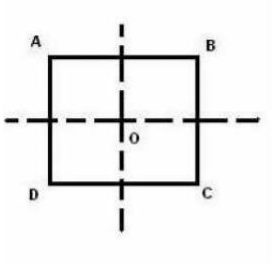
a) 4 b) 0 c) 2 d) 3

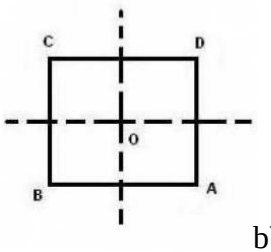
6) The order of rotational symmetry of the given figure is ____.

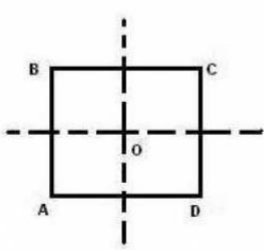


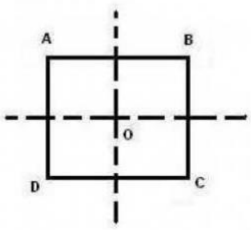
a) 2 b) 4 c) 5 d) 3

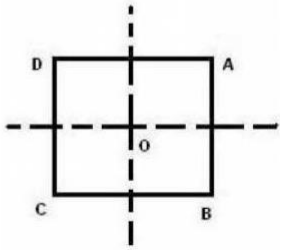
7) In the figure below, ABCD is a square. Which of the following figures shows the rotational symmetry of the given square when it is rotated through 360^{o}?



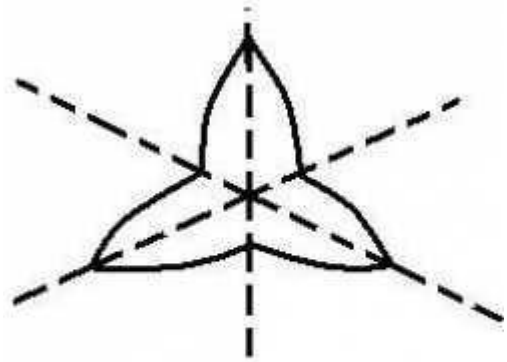
a) 

b) 

c) 

d) 

8) The order of rotational symmetry of the given figure is ____.

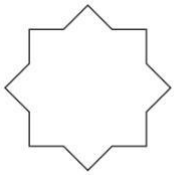


a) 3 b) 2 c) 6 d) 4

9) Which of the following letters does not have a line symmetry, but has a rotational symmetry:

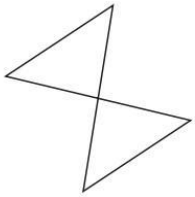
a) H b) I c) Z d) X

10) Identify the smallest angle of rotation that maps the image to itself.



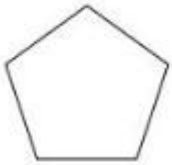
a) 90° b)180° c)45° d) 60°

11) Identify the smallest angle of rotation that maps the image to itself.



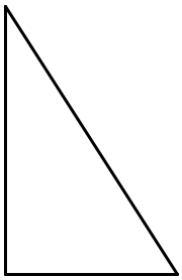
a) 180° b) 360° c) 90° d) No rotational symmetry

12) Identify the smallest angle of rotation that maps the image to itself.



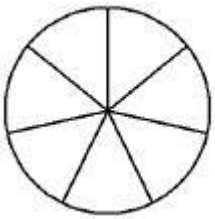
a) 72° b) 180° c) 144° d) 45°

13) What is(are) the angle(s) of rotation needed to rotate a right triangle onto itself?



a) 60° b) 120° c) 180° d) it does not have rotational symmetry

14) What is the order of rotational symmetry for this design?



a) 1 b) 2 c) 5 d) 7

15) Which of the following figures have 2D rotational symmetry with their order of symmetry correctly labelled?

(I)  Order 1 (II)  Order 2 (III)  Order 3 (IV)  Order 4

(a) I and II (b) II and III (c) III and IV (d) I and IV