## St. Lawrence High School <br> A JESUIT CHRISTIAN MINORITY INSTITUTION

Class: 7

Date: 08. 06.20
Full Marks: 15

## Sub: Algebra Geometry

Duration: $\mathbf{4 0} \mathbf{m i n}$

Worksheet Solution 26
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 $180^{\circ}$ ?

a)
b)

2) The order of rotational symmetry of the given figure is $\qquad$ .

a) 2
b) 3
c) 5
d) 4
3) The order of rotational symmetry of an equilateral triangle is $\qquad$ .
a) 5
b) 2
c) 3
d) 4
4) The order of rotational symmetry of the given figure is $\qquad$ .

a) 2
b) 4
c) 3
d) 5
5) An isosceles triangle has rotational symmetry of order $\qquad$ .
a) 4
b) 0
c) 2
d) 3
6) The order of rotational symmetry of the given figure is $\qquad$ .

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 $360^{\circ}$ ?




d)

8) The order of rotational symmetry of the given figure is $\qquad$ .

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) $\mathbf{Z}$
d) X
10) Identify the smallest angle of rotation that maps the image to itself.

a) $90^{\circ}$ b) $180^{\circ}$ c) $45^{\circ}$ d) $60^{\circ}$
11) Identify the smallest angle of rotation that maps the image to itself.

a) $180^{\circ}$
b) $360^{\circ}$
c) $90^{\circ}$
d) No rotational symmetry
12) Identify the smallest angle of rotation that maps the image to itself.

a) $72^{\circ}$
b) $180^{\circ}$
c) $144^{\circ}$
d) $45^{\circ}$
13) What is(are) the angle(s) of rotation needed to rotate a right triangle onto itself?
a) $60^{\circ}$
b) $120^{\circ}$
c) $180^{\circ}$
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 2 D rotational symmetry with their order of symmetry correctly labelled?
(I)

(II)

Order 2 (III)

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