



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra & GeometryWork sheet16answer key

Marks:15Circles 1

Date:24.4.2020

Answer all the following questions(1×15=15)

1. The centre of a circle lies in the ——— of the circle.
A. Interior
B. Exterior
C. on the circle
2. A point, whose distance from the centre of a circle is greater than its radius lies in ———- of the circle.
A. Interior
B. Exterior
C. On the circle
3. The longest chord of a circle is a ———- of the circle.
A. Radius
B. Diameter
C. Arc
4. An arc is a ———- when its ends are the ends of a diameter.
A. Circle
B. Semicircle
C. Chord
5. Segment of a circle is the region between an arc and ———- of the circle.
A. Radius
B. Chord
C. Diameter
6. A circle divides the plane, on which it lies in ——— parts.
A. 2
B. 3
C. 4
7. Line segment joining the centre to any point on the circle is a ———- of the circle.
A. Diameter
B. Radius
C. Chord
8. The length of the complete circle is called its ———-

- A. Circumference
 B. Volume
 C. Area
9. The region between a chord and either of its arcs is called a ———
 A. Sector
 B. Segment
 C. Chord
10. The region between an arc and the two radii, joining the centre to the endpoints of the arc is called a ————
 A. Segment
 B. Sector
 C. Chord
11. A ——— is the collection of all points in a plane, which are equidistant from a fixed point in the plane.
 A. Circle
 B. Line segment
 C. Curve
12. In a circle of radius 17cm, the distance of a chord of length 16cm from the centre is——
 A. 15cm
 B. 8cm
 C. 1cm
13. There is ——-circle passing through three non collinear points.
 A. One and only one
 B. Two
 C. Three
14. ——- tangent can be drawn to a circle at a point on it
 A. 1
 B. 2
 C. 4
15. ——- tangents can be drawn from a point outside a circle
 A. 1
 B. 2
 C. 3

ANSWERS:

1. Interior
2. Exterior
3. Diameter
4. Semicircle
5. Chord
6. 3
7. Radius
8. Circumference
9. Segment
10. Sector
11. Circle
12. 15cm, perpendicular bisects chord, so base= $16 \div 2 = 8$, Pythagorean triangle, $r^2 = d^2 + b^2$, 289-

$$64=d^2, d=\sqrt{225}$$

13. One and only one

14. 1

15. 2

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