



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT : Algebra and Geometry

Work sheet 19 answer key

Marks:15

Theorem 6 and 7

Date:28.4.2020

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

1. The sum of the angles of a parallelogram is ———— degree.
A. 90
B. 180
C. 360
2. If one pair of opposite sides of a quadrilateral are parallel then it is called a ———
A. Parallelogram
B. Square
C. Trapezium
3. If both pairs of opposite sides of quadrilateral are parallel then it is called a ———
A. Parallelogram
B. Square
C. Trapezium
4. A diagonal of a parallelogram divides it into two ——— triangles.
A. Similar
B. Congruent
C. Equal
5. In a parallelogram, if one of its angles as a right angle is a ————
A. Rectangle
B. Rhombus
C. Kite
6. Which of the following statement is false?
A. A parallelogram is a trapezium
B. A square is a rectangle
C. A trapezium is a parallelogram
7. The parallelogram with all sides are equal is called —————
A. Rhombus
B. Kite
C. Trapezium
8. The consecutive angles of a parallelogram are ————
A. Complementary
B. Supplementary
C. Equal

9. If diagonals AC and BD intersect at O, then AO and OC is ——— of AC
- One third
 - Half
 - Quarter
10. The two diagonals are equal in a —————
- Rectangle
 - Parallelogram
 - Trapezium
11. If the angles of a quadrilateral are in the ratio 3:5:9: 13, then the four angles are —————
- 36, 60, 108, 156
 - 40, 60, 120, 140
 - 60, 120, 60, 120
12. Which of the following is false about a parallelogram?
- Opposite sides are equal
 - Diagonals bisect each other
 - All the four angles are equal.
13. Two adjacent angles in a parallelogram are in the ratio 1: 2, and then the other two angles are —————
- 40, 140
 - 60, 120
 - 80, 100
14. If $AB = 3\text{cm}$, in parallelogram ABCD, then CD is —————
- 3
 - 1.5
 - 6
15. A quadrilateral is a ————— if its opposite sides are equal.
- Kite
 - Trapezium
 - Parallelogram

ANSWERS:

- 360
- Trapezium
- Parallelogram
- Congruent
- Rectangle
- A trapezium is a parallelogram
- Rhombus
- Supplementary
- Half
- Rectangle
- 36, 60, 108, 156
- All the four angles are equal.
- 60, 120
- 3cm
- Parallelogram

