



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra&GeometryWork sheet20

Marks:15

Theorem 8,9 & 10

Date:29.4.2020

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

1. The similarity between a parallelogram and a rectangle in opposite sides are :
 - (i) equal and parallel
 - (ii) not equal
 - (iii) not parallel
 - (iv) none of these
2. The difference between a rectangle and a square is in square all sides are:
 - (i) equal
 - (ii) not equal
 - (iii) can't say
 - (iv) none of these
3. Two sides of a parallelogram having no common end points are called its:
 - (i) diagonals
 - (ii) adjacent sides
 - (iii) opposite sides
 - (iv) none of these
4. A quadrilateral which has one pair of opposite sides parallel is called a:
 - (i) trapezium
 - (ii) square
 - (iii) rectangle
 - (iv) none of these
5. A quadrilateral in which two pairs of adjacent sides are of equal length is known as a:
 - (i) parallelogram
 - (ii) kite
 - (iii) trapezium
 - (iv) none of these

6. A diagonal of a parallelogram divides it into two triangles which are:
- (i) congruent
 - (ii) not congruent
 - (iii) similar
 - (iv) none of these
7. In a parallelogram ABCD, if the length of a diagonal is 5cm and $\angle ABC = 90^\circ$, then the length of other diagonal will be:
- (i) 5 cm
 - (ii) 6 cm
 - (iii) 7 cm
 - (iv) none of these
8. In a parallelogram PQRS, PR and QS are equal and PQ = 6 cm. What is the length of RS ?
- (i) 7 cm
 - (ii) 6 cm
 - (iii) 3 cm
 - (iv) none of these
9. What will be the other two sides of a parallelogram whose two sides are 6cm and 8cm ?
- (i) 6,8 cm
 - (ii) 3,4 cm
 - (iii) 12,16 cm
 - (iv) none of these
10. Lengths of the adjacent sides of a parallelogram are equal and intersect at 90° and length of the diagonal is 20cm. What is length of the side of the parallelogram?
- (i) $2\sqrt{5}$ cm
 - (ii) $5\sqrt{4}$ cm
 - (iii) $10\sqrt{2}$ cm
 - (iv) none of these
11. In parallelogram, diagonals are
- (i) equal
 - (ii) not equal
 - (iii) parallel
 - (iv) none of these
12. In rectangle, diagonals are
- (i) equal
 - (ii) not equal
 - (iii) parallel
 - (iv) none of these
13. In rhombus, diagonals arebut bisect each other at 90°
- i) equal
 - (ii) not equal

- (iii)parallel
- (iv) none of these

14. In square, diagonals are.....and bisect each other at 90° .

- (i) equal
- (ii) not equal
- (iii)parallel
- (iv) none of these

15. Ahaving one angle as 90° , is called a rectangle

- (i) parallelogram
- (ii) Quadrilateral
- (iii)polygon
- (iv)rhombus

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