ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8
SUBJECT :Algebra&GeometryWork sheet20answer key
Marks:15   **Theorem 8,9 & 10**
Date:29.4.2020

Answer all thefollowing 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 $\angle ABC = 90°$, 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 are ………but 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. A ……having one angle as 90°, is called a rectangle

(i) parallelogram

(ii) Quadrilateral

(iii)polygon

(iv)rhombus

Answers

1. (i)
2. (i)
3. (iii)
4. (i)
5. (ii)
6. (i)
7. (i)
8. (ii)
9. (i)
10. (iii)
11. (ii)
12. (i)
13. (ii)
14. (i)
15. (i)

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