



**TOPIC- Properties of Parallelogram**

**Sub: Mathematics**

**Class: 9**

**F. M. 15**

**WORK SHEET NO. -9**

**Date: 16.4.2020**

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Objective questions :

Choose the correct answer :  $1 \times 15 = 15$

- 1) The diagonals of the Parallelogram are \_\_\_\_.  
a) unequal b) equal c) none of the above
  
- 2) The diagonals of an isosceles trapezium are \_\_\_\_.  
a) unequal b) equal c) none of the above.
  
- 3) If the diagonals of the Parallelogram are equal then the Parallelogram will be a  
a) rectangle b) square c) rhombus d) none of them.
  
- 4) If the equal diagonals of a quadrilateral bisect each other but are not perpendicular then the quadrilateral will be a  
a) rhombus b) rectangle c) square d) none of them
  
- 5) If the opposite angles of a quadrilateral are equal then it is a  
a) rhombus b) square c) rectangle d) Parallelogram
  
- 6) QS is a diagonal of the Parallelogram PQRS. If  $PQ > QR$  then  $\angle QRS$  is \_\_\_\_ than  $\angle PSQ$ .  
a) less b) greater c) equal
  
- 7) In which of the following figures the diagonals intersect each other at right angle?  
a) rectangle b) Parallelogram c) trapezium d) rhombus
  
- 8) In the Parallelogram ABCD if  $\angle ABC = \angle BCD$  then the Parallelogram is \_\_\_\_.  
a) rhombus b) trapezium c) rectangular figure

9) The length of the side of a rhombus is 10cm and if the length of one diagonal is 6cm then the length of the other diagonal is

- a) 10cm b) 14cm c) 16cm d) 12cm

10) The perimeter of a Parallelogram is 25cm. If the length of the greater side is 7.5cm then the length of its smaller side will be

- a) 5cm b) 7cm c) 8cm d) 6cm

11) In which of the following figures the length of the diagonals are equal?

- a) Parallelogram b) rhombus c) trapezium d) rectangle

12) The perimeter of the Parallelogram ABCD is 36cm. If  $AB = 9.5$ cm then the length of AD is \_\_\_\_\_cm.

- a) 8.5 b) 8 c) 9 d) 7.5

13) The lengths of the diagonals of a rhombus are 16cm and 12cm. Perimeter of the rhombus is \_\_\_\_\_cm.

- a) 40 b) 80 c) 10 d) 20

14) The lengths of the diagonals of a rhombus are 8cm and 6cm. Find the length of each side of the rhombus?

- a) 5cm b) 4cm c) 1 cm d) 2cm

15) PQRS is a Parallelogram whose sides  $PQ = 4x + y$ ,  $QR = 13$ ,  $RS = 21$ ,  $SP = 3x - 2y$ . Then

- a)  $x = 5, y = 1$  b)  $x = 1, y = 5$  c)  $x = 2, y = 5$  d)  $x = 5, y = 2$

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