

Class – VIII

Mathematics

Understanding Quadrilaterals

Worksheet (BASIC)    Max. marks - 60

Section – A

(1 x 10 = 10)

Choose the correct option :

1. A simple closed curve made up of only line segments is called a ..... .

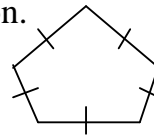
- (a) Circle    (b) Polygon    (c) Line segment    (d) None of them

2. The sum of the measures of the exterior angles of any polygon is -

- (a)  $180^\circ$     (b)  $360^\circ$     (c)  $270^\circ$     (d)  $540^\circ$

3. Find x in the given figure, if it is a regular pentagon.

- (a)  $110^\circ$     (b)  $108^\circ$     (c)  $105^\circ$     (d)  $100^\circ$



4. One angle of a quadrilateral is  $150^\circ$  and other three angles are equal. What is the measure of each of these equal angles ?

- (a)  $75^\circ$     (b)  $85^\circ$     (c)  $95^\circ$     (d)  $70^\circ$

5. Two adjacent sides AB and BC of a parallelogram ABCD are in the ratio 5 : 3. If the perimeter is 200 cm, what is the length of AB and BC ?

- (a) 25 cm & 50 cm   (b) 40 cm & 37.5 cm   (c) 62.5 cm & 37.5 cm  
(d) 60 cm & 62.5 cm

Fill the blanks for the following statements :

6. A parallelogram having all sides equal is called a ..... .  
7. A quadrilateral having exactly one pair of parallel sides is called a ..... .  
8. If the consecutive sides of a parallelogram are equal, then it is necessarily a ..... .  
9. Sum of interior angles of a polygon of 10 sides is ..... .  
10. The number of sides of a regular polygon whose each exterior angle is  $60^\circ$  is ..... .

### Section – B

(1 x 5 = 5)

11. Five angles of a hexagon are  $150^\circ$ ,  $95^\circ$ ,  $80^\circ$ ,  $135^\circ$  &  $125^\circ$ . Find the sixth angle.  
12. How many diagonals are there in a hexagon ?  
13. Find the measure of each interior angle of a regular pentagon.  
14. One angle of a parallelogram is  $60^\circ$ . Find its opposite angle and the adjacent angle.  
15. ABCD is a trapezium with  $AB \parallel DC$ . If  $\angle A = 50^\circ$ , then find  $\angle D$ .