CHAPTER - 3

UNDERSTANDING QUADRILATERALS

Questions carrying 1 Mark each :-

Q.1   What is the sum of the measures of the four angles of a quadrilateral?

Q.2   If the diagonals of a quadrilateral bisect each other at right angle, the

        quadrilateral is called ....

Q.3   The adjacent angles in a parallelogram are.............

Q.4   State true or false :

        A pentagon is a concave polygon.

Q.5   A regular polygon is both equiangular and..........

Questions carrying 2 Marks each :-

Q.6   The adjacent sides of a parallelogram are in the ratio 3:7 and its perimeter is

        100 cm. Find the sides of the parallelogram.

Q.7   The angles of a quadrilateral are in the ratio 2:3:4:6. Find the measure of the

        angles.

Q.8   Find the number of sides of a regular polygon whose each exterior angle has

        a measure of 36°.

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Q.9   Diagonals AC and BD of a rectangle ABCD intersect each other at point O. If

OA=3cm, Find AC and BD.

Questions carrying 3 marks each :

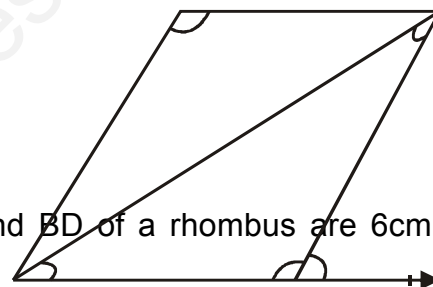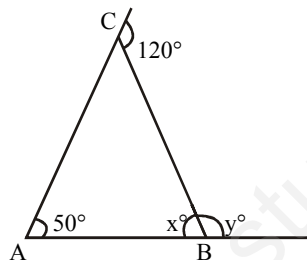Q.10   Find the unknown in the following figures :-

a)

Find angles x, y and z if PQRS

is a || gm.

b)

Find x and y.

Q.11   Lengths of the diagonals AC and BD of a rhombus are 6cm and 8 cm

respectively. Find the length of each side of the rhombus.

Multiple Choice Questions carrying 1 mark each:-

Q.12   The sum of the exterior angles of any polygon is:

a)   180°   b)   360°   c)   90°   d)   60°

Q.13   Which of the following is a regular polygon:

a)   Isosceles triangle   b)   Square

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c)   Parallelogram   d)   Rhombus

Q.14   The opposite angles of a................ are equal.

a)   Parallelogram   b)   Rhombus

c)   Trapezium   d)   None of these