ST. LAWRENCE HIGH SCHOOL

TOPIC –Properties of Parallelogram

Subject : Mathematics **Class-9** **F. M. 15**

WORKSHEET NO. - 14 **First term** **Date: 01.03.2021**

Q.1) Choose the correct option: **(1x15=15)**

i) ABCD is a rectangle. Point of intersection of AC and BD is O, if /AOB = 110°, then the value of /OCB is
a) 45° b) 55° c) 70° d) 65°

ii) BD is the diagonal of a parallelogram ABCD. If /BAD = 75°, and /CBD = 55°, then the measure of /BDC is
a) 45° b) 50° c)55° d) 60°

iii) In which of the following geometric figures the lengths of the diagonals are equal?
a)Parallelogram b)rhombus c) trapezium d)rectangle

iv)O is the midpoint of the diagonal BD of the parallelogram ABCD. BO bisects /ABC . The measure of /AOB is a) 45° b) 60° c)75° d) 90°

v)If in the parallelogram ABCD, /A :/B = 2 : 3, the measure of /D is
a)36° b)54° c)72° d)108°

vi) In the rhombus ABCD, if /ACB = 50°, then the value of /ADB is
a) 50° b)40° c)30° d)60°

vii)Perimeter of the parallelogram ABCD is 36cm. If AB = 9.5 cm, then the length of the side AD is
a)8 cm b) 8.5 cm c) 9 cm d)7.5 cm

viii)The lengths of the diagonals of a rhombus are 16cm and 12 cm. Perimeter of the rhombus is
a) 20cm b) 40 cm c)80 cm d) 10 cm

ix) ABCD is a rectangle whose diagonals AC and BD intersect at O. If /AOB = 36°, then measure of /OBC is
a)64° b) 54° c) 44° d)36°

x)O is the point of intersection of the diagonals AC and BD of the parallelogram ABCD. If /OAD = 50°, /OAB = 35°, and/COD = 95°, then measure of /OBC is
a)35° b)55° c)45° d)40°

xi) The perimeter of the parallelogram ABCD is 32 cm. If AB = 8.5 cm, then the length of the side AD is
a) 7cm b)6.5 cm c) 7.5 cm d)8 cm

xii)In which of the following geometric figures the diagonals intersect each other at right angle?
a)rectangular figure b) parallelogram c)rhombus d) trapezium

xiii) In the parallelogram ABCD, if /ABC = /BCD, then the parallelogram is
a) trapezium b) rectangular figure c)rhombus d)none of these

xiv) P is a point on the side AD of the square ABCD such that /CPD = 30°. CP and diagonal BD intersect each other at the point O. The measure of /COD is
a)60° b) 45° c) 75° d) 30°

xv) The opposite side of a parallelogram are (3x + 2) cm and (5x – 8) cm. The value of the other side (2x – 1) cm of the parallelogram is
a) 9 cm b)11 cm c)10 cm d)8 cm

-ChaitaliRoy