



TOPIC- Revision (Geometry)

CLASS:9

Sub: Mathematics

F. M. 15

WORK SHEET NO. -24

Solution

Date:11.5.2020

Q.1) Choose the correct options: 1x15=15

- i) If two adjacent sides of a parallelogram are equal then it is a _____.
a) rhombus
- ii) If each angle of a parallelogram is a right angle then it is a _____.
a) rectangle
- iii) If in the quadrilateral ABCD, $AD = BC$ and $\angle BAD = \angle ABC$, then ABCD is an _____.
a) isosceles trapezium.
- iv) If the length of the diagonals of a parallelogram are equal then it will be a _____.
a) rectangle
- v) If in a quadrilateral two opposite angles are equal and two opposite sides are parallel then the quadrilateral is a _____.
a) parallelogram
- vi) In the Parallelogram ABCD if $\angle ABC = 55^\circ$ then $\angle CDA =$ ____ degree.
a) 55
- vii) The internal bisectors of $\angle A$ and $\angle B$ of the Parallelogram ABCD intersect each other at O. Then $\angle AOB =$ ____ degree.
a) 90
- viii) The length of the diagonals of a rhombus are 24cm and 18cm. Then the length of the side of the rhombus will be _____.
a) 15cm
- ix) If the length of one diagonal of a rhombus of side 13cm is 24cm then the length of other diagonal is _____.
a) 10cm
- x) The bisectors of four angles of a parallelogram intersect to form a _____.
a) rectangle
- xi) The length of the diagonals of a parallelogram are 12cm and 8cm. The perimeter of the quadrilateral obtained by joining the mid points of the sides of the Parallelogram is _____.
a) 20cm
- xii) If the measure of an angle of a parallelogram is half its complementary angle then the complementary angle will be ____ degree.
a) 120
- xiii) In triangle ABC, O is the mid point of median AD. Extended BO intersect AC at X. Y is the mid point of CX, if $AC = 12.6\text{cm}$ then $XY =$ _____.
a) 4.2cm
- xiv) In triangle ABC, D is the mid point of BC. BE is perpendicular on the external bisector of $\angle BAC$. Then $DE =$ _____.
a) $\frac{1}{2}(AB + AC)$
- xv) In triangle ABC, $\angle A$ is a right angle and D is the mid point of hypotenuse BC. Then $AD =$ _____.
a) $\frac{1}{2} BC$

