



TOPIC-Properties of parallelogram

Sub: Mathematics

Class-9

F. M. 15

WORK SHEET NO. -10

Solutions

Date: 17.4.2020

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

- i) ABCD is a rectangle. Point of intersection of AC and BD is O, if $\angle AOB = 110^\circ$ then $\angle OCB =$
 - b) 55°
- ii) If in the parallelogram ABCD, $\angle A : \angle B = 2 : 3$ then $\angle D =$
 - d) 108°
- iii) BD is the diagonal of the parallelogram ABCD. If $\angle BAD = 75^\circ$ and $\angle CBD = 55^\circ$ then $\angle BDC$ is
 - b) 50°
- iv) O is the mid point of the diagonal BD of the parallelogram ABCD; BO bisects $\angle ABC$ then $\angle AOB$ is
 - d) 90°
- v) In the rhombus ABCD if $\angle ACB = 50^\circ$ then $\angle ADB$ is
 - d) 40°
- vi) If the greater angle of a parallelogram is 54° more than twice the smaller angle, then the greater angle is
 - a) 138°
- vii) ABCD is a rhombus. If $\angle ABD = 40^\circ$ then $\angle BCD$ is
 - a) 100°
- viii) The point of intersection of the diagonals of a rectangle ABCD is O. If $\angle AOB = 120^\circ$ then $\angle OCB$ is
 - a) 30°
- ix) In a parallelogram ABCD, the point of intersection of diagonals AC and BD is O. If $\angle AOD = 120^\circ$ and $\angle BAC = 2\angle ADB$, then $\angle ACD$ is
 - d) 80°
- x) In a rhombus PQRS the diagonals PR and QS intersect at O. If $\angle PRS = 50^\circ$ then $\angle OSR$ is
 - c) 40°
- xi) In a parallelogram PQRS the ratio of angles $\angle PQR : \angle QRS$ is 1:5. Then the value of $\angle QPS$ and $\angle PSR$ are
 - a) 100° and 80°
- xii) ABCD is a rectangle whose diagonals AC and BD intersect at O; if $\angle AOB = 36^\circ$ then $\angle OBC$ is
 - a) 54°
- xiii) P is the point on the side AD of a square ABCD such that $\angle CPD = 30^\circ$. CP and diagonal BD intersect at point O. Then $\angle COD$ is
 - d) 75°
- xiv) In the rectangle PQRS, the diagonals PR and QS intersect at O. If $\angle PQS = 50^\circ$ then $\angle SOR =$
 - a) 80°
- xv) In a parallelogram ABCD, $\angle A = 65^\circ$ then the value of $\angle B$ is
 - c) 115°

