

Board –

Class –

Topic –

- Q.1** The sum of all the angles of a quadrilateral is
- (A) 180° (B) 270°
- (C) 360° (D) 400°
- Q.2** The three angles of a quadrilateral are 80° , 70° and 120° . The fourth angle is
- (A) 110° (B) 100°
- (C) 90° (D) 80°
- Q.3** The angles of a quadrilateral are in the ratio 3: 4: 5: 6. The largest of these angles is
- (A) 90° (B) 120°
- (C) 150° (D) 102°
- Q.4** A quadrilateral having one and only one pair of parallel sides is called
- (A) a parallelogram (B) a kite
- (C) a rhombus (D) a trapezium
- Q.5** A quadrilateral whose opposite sides are parallel is called
- (A) a rhombus (B) a kite
- (C) a trapezium (D) a parallelogram
- Q.6** An isosceles trapezium has
- (A) equal parallel sides (B) equal nonparallel sides
- (C) equal opposite sides (D) none of these

Q.7 If the diagonals of a quadrilateral bisect each other at right angles, then this quadrilateral is

- (A) a rectangle (B) a rhombus
(C) a kite (D) none of these

Q.8 A square has

- (A) all sides equal and diagonals unequal
(B) all sides equal and diagonals equal
(C) all sides unequal and diagonals equal
(D) none of these

Q.9 A quadrilateral having two pairs of equal adjacent but unequal opposite sides is called a

- (A) trapezium (B) parallelogram
(C) kite (D) rectangle

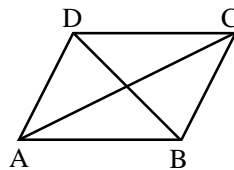
Q.10 What do you mean by a regular quadrilateral?

- (A) A rectangle (B) A rhombus
(C) A square (D) A trapezium

Q.11 In the adjacent figure, a quadrilateral has been shown.

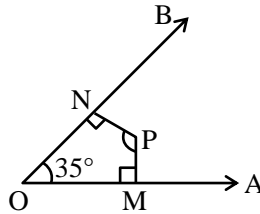
Name:

- (i) its diagonals,
(ii) two pairs of opposite sides,
(iii) two pairs of opposite angles,
(iv) two pairs of adjacent sides,

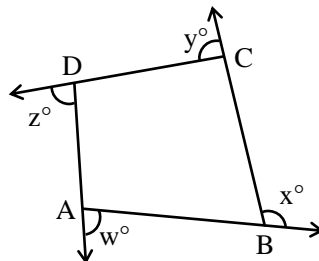


- Q.12** Two sides of a parallelogram are in the ratio 4 : 3. If its perimeter is 56 cm, find the lengths of its sides.
- Q.13** Name each of the following parallelograms.
- (i) The diagonals are equal and the adjacent sides are unequal.
 - (ii) The diagonals are equal and the adjacent sides are equal.
 - (iii) The diagonals are unequal and the adjacent sides are equal.
- Q.14** Which of the following statements are true and which are false?
- (a) The diagonals of a parallelogram are equal.
 - (b) The diagonals of a rectangle are perpendicular to each other.
 - (c) The diagonals of a rhombus are equal.
- Q.15** Give reasons for the following:
- (a) A square can be thought of as a special rectangle.
 - (b) A square can be thought of as a special rhombus.
 - (c) A rectangle can be thought of as a special parallelogram.
 - (d) A square is also a parallelogram.
- Q.16** One angle of a quadrilateral is 78° and the other angles are equal. Find the measure of each of the equal angles.
- Q.17** The angles of a quadrilateral are 100° , 98° and 92° . Find the fourth angle.
- Q.18** In a quadrilateral ABCD, the angles A, B, C and D are in ratio 1 : 2 : 3 : 4. Find the measure of each angle of the quadrilateral.
- Q.19** The measure of two adjacent angles of a quadrilateral are 125° and 35° , the other two angles are equal. Find the measure of each of the angles.

- Q.20** In the figure, P is a point in the interior of $\angle AOB$. $PM \perp OA$ and $PN \perp OB$. If $\angle AOB = 35^\circ$, what is the measure of $\angle MPN$?

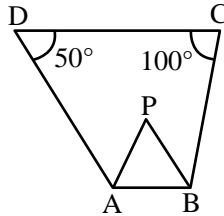


- Q.21** Three angles of a quadrilateral are equal. The fourth angle is of measure 120° . What is the measure of each of its equal angles?
- Q.22** Two angles of a quadrilateral are 100° and 80° . If one of the other two is double the other, find their measures.
- Q.23** The sides of a quadrilateral are produced in order. The exterior angles marked as w° , x° , y° and z° , are in the ratio 5: 6: 3: 4. Find their measures.



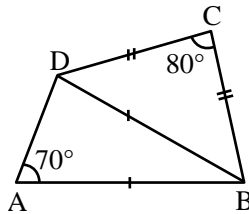
- Q.24** Write true or false for the following statements.
- In a convex quadrilateral, there is at least one angle which is less than 180° .
 - A quadrilateral may have four acute angles.
 - A quadrilateral may have four obtuse angles.
 - At least one angle of a concave quadrilateral is more than 180° .
 - A line segment joining two points in the interior of a quadrilateral lies entirely within the interior of the quadrilateral.

Q.25 In figure, the bisectors of $\angle A$ and $\angle B$ meet at P. If $\angle C = 100^\circ$, $\angle D = 50^\circ$, find $\angle APB$.

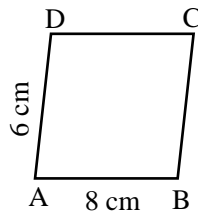


Q.26 If three equal angles of a quadrilateral measure 75° , find the fourth angle.

Q.27 Find the angles of the quadrilateral ABCD.



Q.28 Find the perimeter of a parallelogram, if its two adjacent sides measure 8 cm and 6 cm.



Q.29 Check if the following figure forms a parallelogram, where $AB = 5.5$ cm, $BC = 8$ cm, $\angle B = \angle D = 45^\circ$, $\angle C = \angle A = 145^\circ$.

Q.30 PQRS is a rectangle. If $\angle POQ = 120^\circ$, find the angles of $\angle POQ$.

