

1. ABCD is a quadrilateral. If AC and BD bisect each other, what is ABCD?

- (A) A square (B) A parallelogram
(C) A rectangle (D) All the above

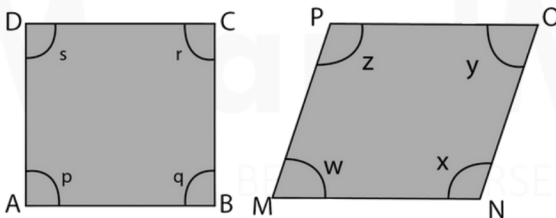
2. ABCD is a parallelogram. The angle bisectors of $\angle A$ and $\angle D$ meet at O. What is the measure of $\angle AOD$?

- (A) 45° (B) 90° (C) 75° (D) 180°

3. The diagonal of a rectangle is 10 cm and its breadth is 6 cm. What is its length?

- (A) 6 cm (B) 5 cm (C) 8 cm (D) 4 cm

4. ABCD and MNOP are quadrilaterals as shown in the figure.



Which of the following is correct?

- (A) $p + q + r + s = w + x + y + z$ (B) $p + q + r + s < w + x + y + z$
(C) $p + q + r + s > w + x + y + z$ (D) Either (B) or (C)

5. What do you call a parallelogram which has equal diagonals?

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



6. In a square ABCD, the diagonals bisect at O. What type of a triangle is AOB?

- (A) An equilateral triangle.
- (B) An isosceles but not a right-angled triangle.
- (C) A right angled but not an isosceles triangle.
- (D) An isosceles right-angled triangle.

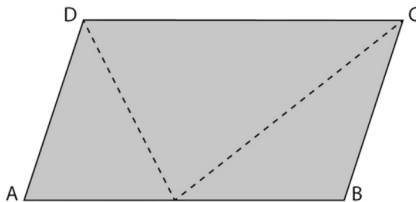
7. The perimeter of a parallelogram is 180 cm. If one side exceeds the other by 10 cm, what are the sides of the parallelogram?

- (A) 40 cm, 50 cm
- (B) 45 cm each
- (C) 50 cm each
- (D) 45 cm, 50 cm

8. In the quadrilateral ABCD, the diagonals AC and BD are equal and perpendicular to each other. What type of a quadrilateral is ABCD?

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

9. ABCD is a parallelogram as shown in the figure. If $AB = 2AD$ and P is the mid-point of AB, what is the measure of $\angle CPD$?



- (A) 90°
- (B) 60°
- (C) 45°
- (D) 135°





10. In a parallelogram ABCD, if $AB = 2x + 5$, $CD = y + 1$, $AD = y + 5$ and $BC = 3x - 4$, what is the ratio of AB and BC?

(A) 71: 21

(B) 31:35

(C) 12: 11

(D) 4:7



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