Topic: Understanding Quadrilaterals

Worksheet No.: 2

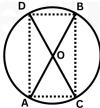


- 1. If ABCD is an isosceles trapezium, what is the measure of $\angle C$?
- (A) $\angle B$
- (B) $\angle A$
- (C) $\angle D$
- (D) 90°
- 2. A diagonal of a rectangle is inclined to one side of the rectangle at 25°. What is the measure of the acute angle between the diagonals?
- (A) 25°
- (B) 40°
- (C) 50°
- (D) 55°
- 3. If angles P, Q, R and S of the quadrilateral PQRS, taken in order, are in the ratio 3: 7: 6: 4, what is PQRS?
- (A) A rhombus

(B) A parallelogram

(C) A trapezium

- (D) A kite
- 4. If AB and CD are diameters, what is ACBD?



(A) A square

- (B) A trapezium
- (C) An isosceles trapezium
- (D) A rectangle
- 5. If two adjacent angles of a parallelogram are in the ratio 3:2, what are their measures?
- (A) 108°, 72°
- (B) 72°, 36°
- (C) 100°, 80°
- (D) 144°, 36°

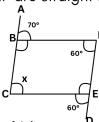


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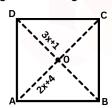
6. ABC and DEF are straight lines.



Find the value of 'x'.

- (A) 60°
- (B) 80°
- (C) 70°
- (D) 85°

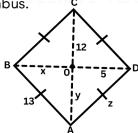
7. ABCD is a rectangle. Its diagonals meet at O.



Find x, if OA = 2x + 4 and OD = 3x + 1.

- (A) 2
- (B) 3
- (D) 2

8. ABCD is a rhombus.



Find the respective values of x, y, and z.

- (A) 12, 5, 13 (B) 5, 12, 13 (C) 5, 13, 5 (D) 12, 13, 5

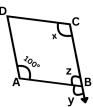


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9. In the figure, ABCD is a parallelogram.



Find the respective values of x, y, and z.

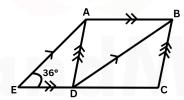
(A) 100°, 80°, 100°

(B) 100°, 100°, 80°

(C) 80°, 100°, 100°

(D) 80°, 80°, 100°

10. In the figure, ABCD is a rhombus and ABDE is a parallelogram.



Given that EDC is a straight line and $\angle AED = 36^o$, find $\angle BAD$.

- (A) 36°
- (B) 72°
- (C) 108°
- (D) 120°



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