CLASS 8

SUBJECT :Algebra and Geometry   **Work sheet 19**
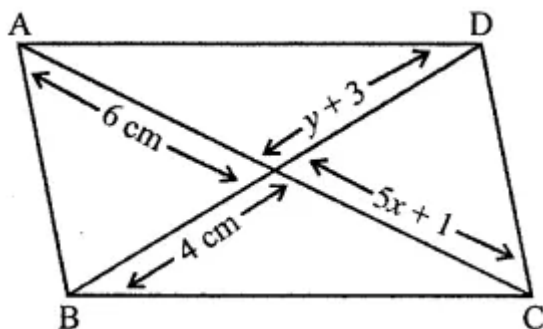
Marks:15   **SPECIAL TYPES OF QUADRILATERAL**

Date:20.3.2021
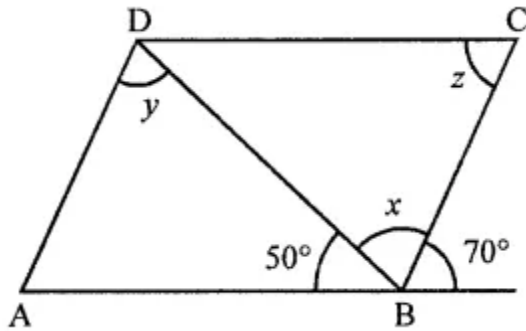
Answer all the following questions(1×15=15)

1. In the given figure, ABCD is a parallelogram, the values of x and y respectively
   are
   (a) 1 cm, 1 cm
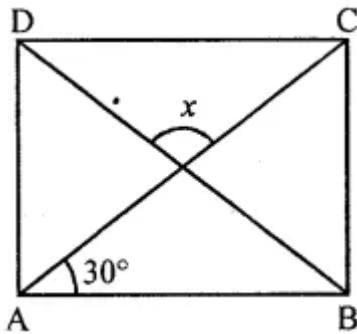   (b) 2 cm, 1 cm
   (c) 1 cm, 2 cm
   (d) 2 cm, 2 cm

2. In the given figure, ABCD is a parallelogram, the values of x, y and z respectively
   are
   (a) 60°, 60°, 70°
   (b) 60°, 70°, 60°
   (c) 70°, 60°, 60°

(d) none of these

3. In the given figure, ABCD is a rectangle, the value of angle x is
   (a) 60°
   (b) 90°
   (c) 120°
   (d) none of these

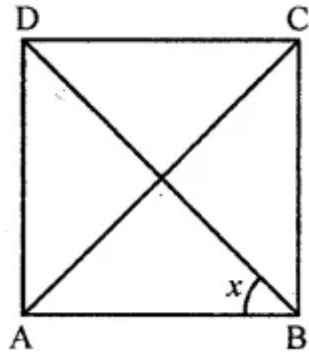4. In a rhombus ABCD, the diagonals AC and BD are respectively 8 cm and 6 cm. The length of each side of the rhombus is
   (a) 7 cm
   (b) 5 cm
   (c) 6 cm
   (d) 8 cm

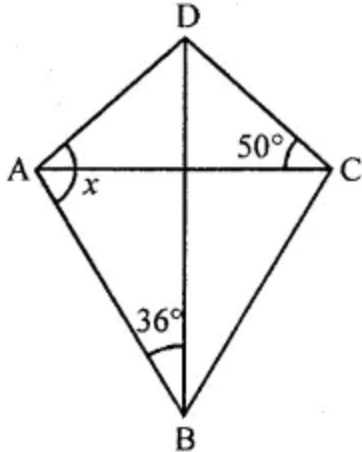5. In the given figure, ABCD is a square, the value of angle x is
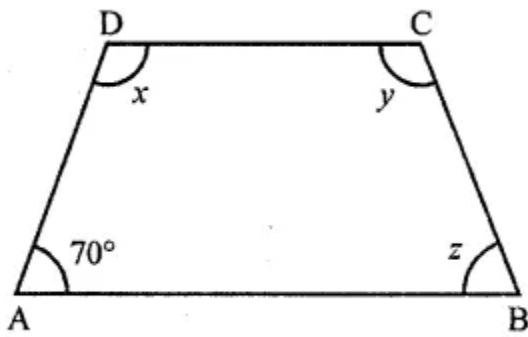   (a) 30°
   (b) 45°
   (c) 60°

(d) not possible to find
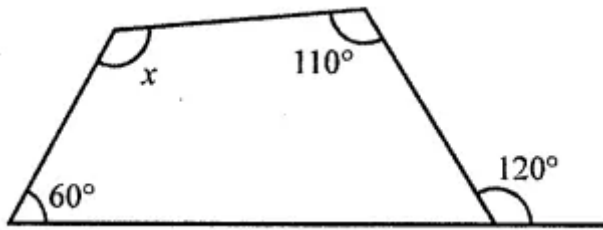

6. I In the given figure, ABCD is a kite, the value of angle x is
   (a) 86°
   (b) 100°
   (c) 104°
   (d) none of these

7. In the given figure, ABCD is an isosceles trapezium. The values of x, y and z respectively are
   (a) 110°, 110°, 70°
   (b) 110°, 70°, 110°
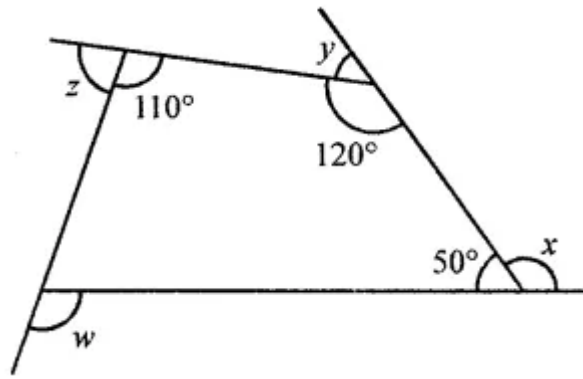   (c) 70°, 110°, 110°
   (d) none of these

8. In the given figure, the value of x is
   (a) 120°
   (b) 130°
   (c) 140°
   (d) 150°

9. The lengths of two adjacent sides of a parallelogram are in the ratio 1 : 2. If the perimeter of a parallelogram is 60 cm, then the length of its sides are
   (a) 6 cm, 12 cm
   (b) 8 cm, 16 cm
   (c) 9 cm, 18 cm
   (d) 10 cm, 20 cm

10. In the given figure, the value of x + y + z + w is
    (a) 180°
    (b) 270°
    (c) 300°

(d) 360°

11. The diagonal of a square bisects the interior angle in how many degree?
   a) 45°
   b) 90°
   c) 75°
   d) 30°

12. The adjacent angles of a parallelogram are 100° and 80°. One of the other angle is?
   a) 60°
   b) 70°
   c) 100°
   d) 50°

14. The diagonals of which figure intersect at right angles?
   a) kite
   b) trapezium
   c) isosceles trapezium
   d) none of these

15. One property of isosceles trapezium is
   a) opposite angles are not equal
   b) opposite angles are equal
   c) diagonals are not equal
   d) diagonals bisect

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