T

THOOTHUKUDI DISTRICT
FIRST MID TERM TEST - 2024

Standard - VII   Reg.No. ☐☐☐☐☐☐

Time: 1.00 hrs.   **MATHEMATICS**   *Marks:30*

PART - A

I. Choose the best answer :   **3×1=3**

1. Which property is illustrated by the equation $(5×2)+(5×5)=5×(2+5)$
   a) commutative b) closure   c) distributive   d) associative

2. $(-200) ÷ 100$ is _____.
   a) 2   b) -2   c) -300   d) -100

3. The height of the rhombus whose area 96sq.m and side 24m is _____.
   a) 8m   b) 10m   c) 2m   d) 4m

II. Fill in the blanks: **3×1=3**

4. $15 + (-8) + 8 =$ _____.

5. The angle between the diagonals of a rhombus is _____.

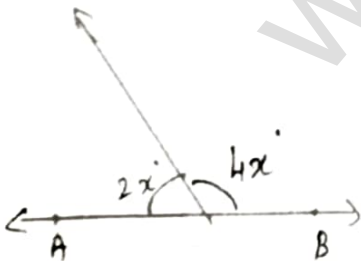6. The numerical co-efficient of the term $-ab$ is _____.

PART - B

III. Answer any 6 questions: **6×2=12**

7. Add using number line : 8 and −12

8. Find the value : $35 - (-64)$

9. Find all possible pairs of integers that give a product of −50.

10. Calculate the area of the rhombus having diagonals equal to 6m and 8m.

11. Find the area of a trapezium whose parallel sides are 24cm and 20cm and the distance between them is 15cm.

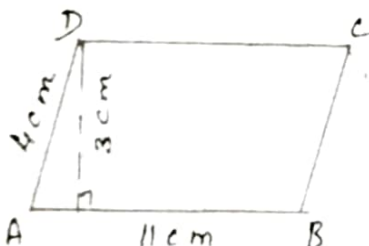12. Write the variables and constants of the expression $18 + x - y$.

13.   Find the value of x^o.

14.   Find the perimeter of the parallelogram.

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PART - C

III.Answer any 4 questions: **4×3=12**

15. Add :

     i) 82 + (-75)   ii) (-48) + (-15)   iii) 20 + (-72)

16. During summer, the level of the water in a pond decreases by 2 inches every week due to evaporation. What is the change in the level of the water over a period of 6 weeks?

17. Find the height of the parallelogram whose area and base are 368 sq.cm. and 23cm respectively.

18. The sun shade of a window is in the form of isosceles trapezium whose parallel sides are 81cm and 64cm and the distance between them is 6cm. Find the cost of painting surface at the rate of ₹2 per sq. cm.

19. If $x = 2$ and $y = 3$, then find the value of the following expressions.

     i) $2x - 3y$ ii) $x + y$ iii) $x + 1 - y$

20. If the three angles at a point are in the ratio 1 : 4 : 7, find the value of each angle?