FIRST TERM EXAMINATION – 2023

SUMMATIVE ASSESSMENT – MATHEMATICS

CLASS :7 **Time : 2 Hrs**

Total Marks: 60

Section – A

I. Choose the best Answer. **5 × 1 = 5**

1. 20 + (-9) + 9 = _____

   a) 20 b) 29 c) 11 d) 38

2. (-100) – 0 + 100 = _____

   a) 200 b) 0 c) 100 d) -200

3. (-200) ÷ 10 is

   a) 20 b) -20 c) -190 d) 210

4. Choose the pair of like terms.

   a) 7p, 7x b) 7r, 7x c) -4x, 4 d) -4x, 7x

5. The addition of 3mn, -5mn, 8mn and -4mn is _____.

   a) mn b) -mn c) 2mn d) 3mn

II. Fill in the blanks. **5 × 1 = 5**

6. 75 + (-25) = _____.

7. _____ property is illustrated by equation : (5×2) + (5×5) = 5× (2+5)

8. The constant term of the expression 2y - 6 is _____.

9. If a = 5, the value of 2a + 5 is _____.

10. The lines that never intersect are called _____.

III. Say TRUE or FALSE. **5 × 1 = 5**

11. (-125) + 25 = - 100

12. (-100) × 0 × 20 = 0

13. The co-efficient of ab in the term 15abc is 15.

14. Distance travelled by a bus and time taken are in direct proportion.

15. Sum of a – b + c and – a + b – c is zero.

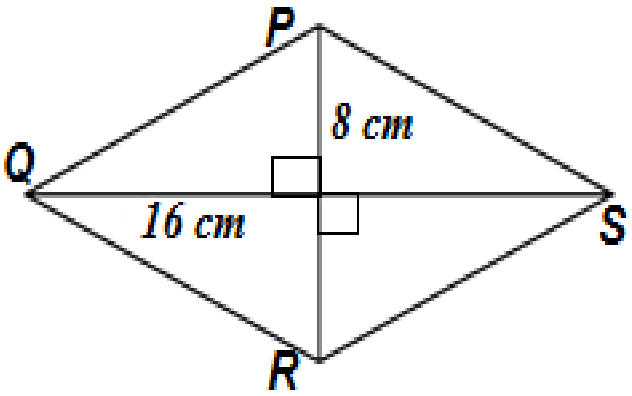
IV. Match the following. **5 × 1 = 5**

16. Corresponding angles are	-	(- 11)
17. Right angle	-	4 squares
18. Area of the rhombus	-	equal
19. 11 × (-1)	-	90^o
20. Tetromino shape	-	$\frac{1}{2} \times d_1 \times d_2$

Section - B

V. Answer Any 10 Questions. **10 × 2 = 20**

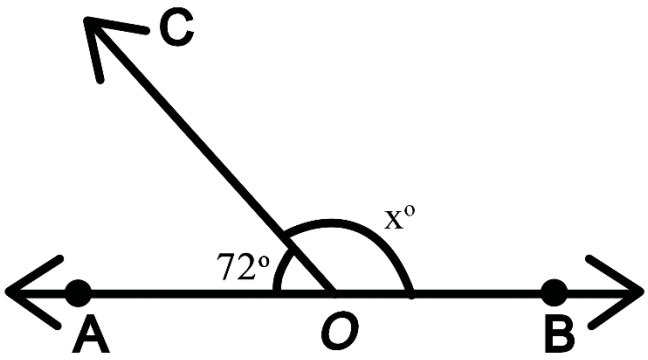
21. Add : - 3 and (-5) using number line
22. Subtract : - 40 from 70
23. Find the product of : (-10) × 12 × (-9)
24. Divide (-85) by 5
25. One of the sides and the corresponding height of the parallelogram are 12 m and 8 m respectively. Find the area of the parallelogram.
26. Find the area of the rhombus PQRS



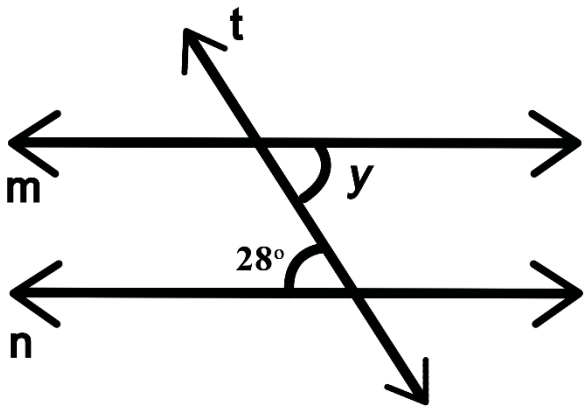
27. Find the area of the trapezium whose height is 14cm and the parallel sides are 18 cm and 9 cm of length
28. Identify the like terms among the following :

$$7x,\ 5y,\ -8x,\ 12y,\ 6z,\ z,\ -12x,\ -9y,\ 11z$$

29. Add : 7mn, 5mn
30. Solve : x + 5 = 8
31. Subtract : 7pq from 11pq
32. If the cost of 3 books is ₹90, then find the cost of 12 books.
33. Given that AB is a straight line. Calculate the value of x^o in the following.



34. Find the measure of the angle y in the given figure.



Section – C

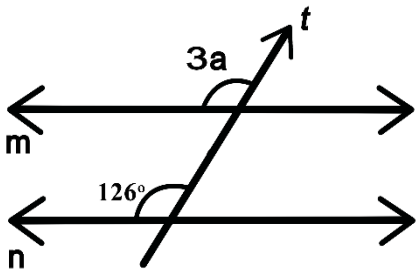
VI. Answer Any five questions. **5 × 3 = 15**

35. Chitra has ₹150. She wanted to buy a bag which costs ₹225. How much money does she need to borrow from her friend?
36. Given 168 x 32 = 5376. Find the value of (-5376) ÷ (-32).
37. Find the height 'h' of the parallelogram whose area and base are 368 sq.cm and 23 cm respectively.
38. The area of a rhombus is 100 sq.cm and length of one of its diagonals is 8 cm. Find the length of the other diagonal.
39. If X = 2 and Y = 3, then find the value of the following expressions

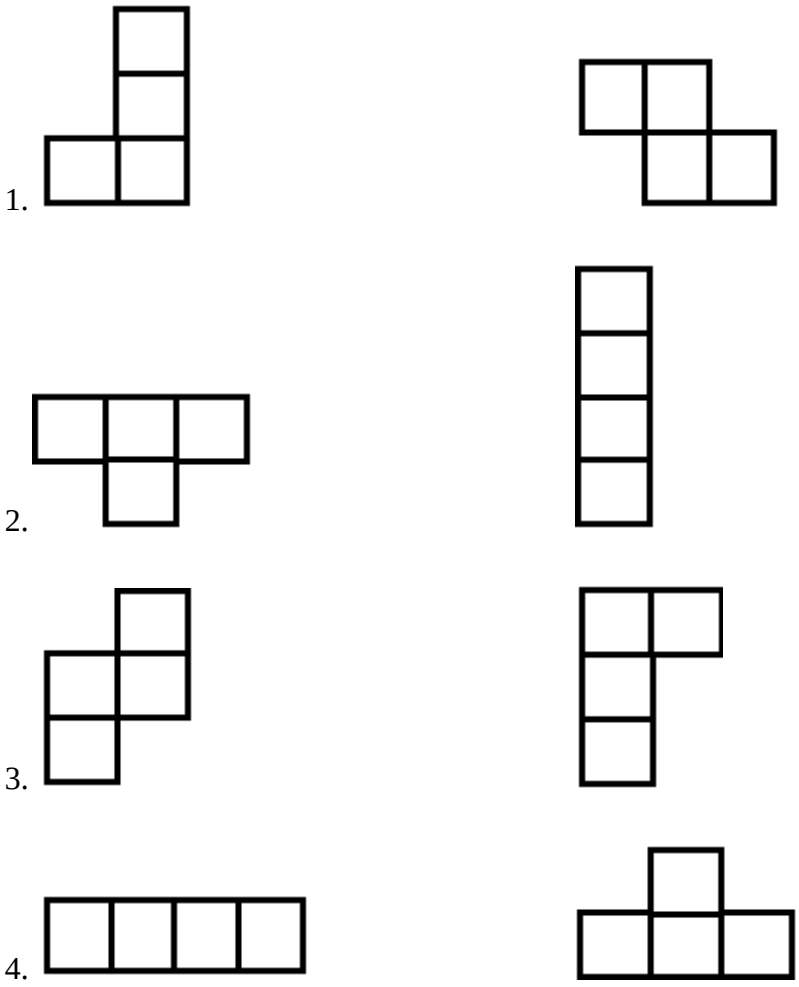
    i) X + Y ii) X + 1 - Y

40. A dozen bananas cost ₹20. What is the price of 48 bananas?

41.Find the value of angle ‘a’ in the given figure.



42. Match the tetrominoes of same type.



Section - D

VII. Answer the following. (Any one) **1× 5 = 5**

43. a) Construct a perpendicular bisector of the line segment AB = 8 cm.

(OR)

b) Construct bisector of the $\angle ABC$ with the measure 90^0.