

Class : 7Register
Number**FIRST TERM - SUMMATIVE ASSESSMENT(SA) - 2023-24**

Time Allowed : 2.00 Hours]

MATHEMATICS

[Max. Marks :60

PART - I**I. Choose the correct Answer.****10x1=10**

1. $(-10) + (+7) = \text{-----}$
a) +3 b) -3 c) -17 d) +17
2. Which property is illustrated by equation. $(5 \times 2) + (5 \times 5) = 5 \times (2+5)$
a) Commutative b) Closure c) Distributive d) Associative
3. The set of integers is not closed under.
a) Addition b) Subtraction c) Multiplication d) Division
4. The area of a parallelogram
a) $b \times h$ sq. units b) $l \times b$ sq. units c) $\frac{1}{2} \times d_1 \times d_2$ sq. units d) $S \times S$ sq. units
5. When the non-parallel sides of a trapezium are equal then it is known as
a) a square b) a rectangle
c) an isosceles trapezium d) a parallelogram
6. The numerical coefficient of $-7mn$ is
a) 7 b) -7 c) P d) -P
7. In an expression, we can add or subtract only -----
a) Like terms b) Unlike terms c) All terms d) None of the above
8. The generalization of the number pattern 3, 6, 9, 12,
a) n b) $2n$ c) $3n$ d) $4n$
9. If the cost of 3 books is ₹.90, then the find the cost of 12 books.
a) ₹.300 b) ₹.320 c) ₹.360 d) ₹.400
10. The sum of all angles at a point is
a) 360° b) 180° c) 90° d) 0°

II. Fill in the Blanks.**5x1=5**

11. ----- $\times 75 = 0$.
12. The additive inverse of $-37xyz$ is -----
13. A straight angle measures -----
14. ----- is a line that intersect two lines at distinct points.
15. A tetromino is a shape obtained by ----- squares together.

III. Match the following.**5x1=5**

16. Area of a rhombus - a) xy
17. Area of a trapezium - b) $\frac{x}{y}$
18. Direct proportion - c) Commutative property
19. Inverse proportion - d) $\frac{1}{2} \times d_1 \times d_2$ sq. units
20. $(-15) + 7 = 7 + (-15)$ - e) $\frac{1}{2} \times h \times (a + b)$ sq. units

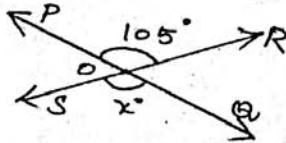
PART - II**IV. Answer any 10 questions. Q.No.35 is Compulsory.****10x2=20**

21. Add 10 and (-15) by using number line.

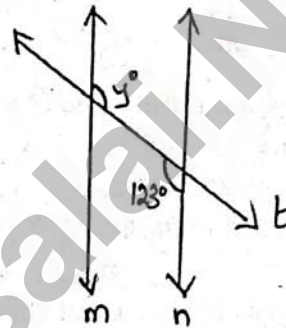
CH/7/Mat/1

22. A submarine is at 300 ft below the sea level. If it ascends to 175 ft, what is its new position?
23. Find the product of $(-10) \times 12 \times (-9)$.
24. If $168 \times 32 = 5376$ then, find $(-5376) \div (-32)$.
25. Find the height 'h' of the parallelogram whose area and base are 56m^2 and 8m respectively.
26. Find the area of the rhombus whose side is 17 cm and height is 8 cm .
27. Write the variables and terms: $7p - 4q + 5$.
28. If $x = 2$ and $y = 3$ then find the value of $4y - x$.
29. Subtract $m+n$ from $3m - 7n$.
30. Solve: $x + 5 = 8$.
31. A dozen bananas cost ₹.20. What is the price of 48 bananas?
32. If 40 workers can do a project work in 8 days. Then how many workers can do the same work in 4 days?

33. Find the value of x° from the given figure.



34. Find the measure of angle y° . From the given figure.



35. Draw a tetromino which passes symmetry.

(OR)

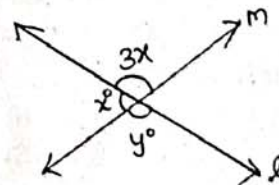
Add: $5xyz - 3xy, 3zxy - 5yx$.

PART - III

- V. Answer any 5 of the following questions. Q.No.43 is compulsory. 5x3=15
36. Are $3 \times [-4 + 6]$ and $[3 \times (-4)] + [3 \times 6]$ equal? Mention the property.
37. If $P = -15$ and $Q = 5$ find $(P-Q) \div (P+Q)$.
38. The base of parallelogram is 16 cm and the height is 7 cm less than its base. Find the area of the parallelogram.
39. Find two consecutive odd numbers whose sum is 200 .
40. It takes 120 minutes to weed a garden with 6 gardeners. If the same work is to be done in 30 minutes, how many more gardeners are needed?
41. A car travels 90 km in 2 hours 30 minutes. How much time is required to cover 210 km ?
42. If the three angles at a point are in the ratio $1:4:7$. Find the value of each angle?
43. The area of a trapezium is 1586 cm^2 . The distance between its parallel sides is 26 cm . If one of the parallel sides is 84 cm then, find the other side.

(OR)

Find the angles x° and y° in the figure shown.



PART - IV

- VI. Answer the following.

44. a) Construct a perpendicular bisector of the line segment $AB = 7\text{ cm}$.

(OR)

- b) Construct an angle without using protractor $\angle ABC = 120^\circ$.

1x5=5