

CLASS : 9Register
Number**THIRD MID TERM TEST - 2025**
MATHEMATICS

Time Allowed : 1.30 Hours]

[Max. Marks : 50

PART - I**I. Choose the correct Answer.****7x1=7**

1. The capacity of a water tank of dimensions 10m x 5m x 1.5m is
(a) 75 litres (b) 750 litres (c) 7500 litres (d) 75000 litres
2. If the sides of a triangle are 3 cm, 4 cm and 5 cm, then the area is
(a) 3 cm² (b) 6 cm² (c) 9 cm² (d) 12 cm²
3. If the lateral surface area of a cube is 600cm², Then the total surface area is
(a) 150 cm² (b) 400 cm² (c) 900 cm² (d) 1350 cm²
4. If the ratio of the sides of two cubes are 2 : 3, then ratio of their surface areas will be
(a) 4 : 6 (b) 4 : 9 (c) 6 : 9 (d) 16 : 36
5. The mean of the square of first 11 Natural numbers is
(a) 26 (b) 46 (c) 48 (d) 52
6. A particular observation which occurs maximum number of times in a given data is called its
(a) Frequency (b) Range (c) Mode (d) Median
7. The mean of a set of seven numbers is 81. If one of the numbers is discarded, the mean of the remaining numbers is 78. The value of discarded number is
(a) 101 (b) 100 (c) 99 (d) 98

PART - II**II. Answer any 5 Questions. Q.No : 14 is compulsory.****5x2=10**

8. Find the area of an equilateral triangle whose perimeter is 180 cm.
9. The lengths of sides of a triangular field are 28m, 15m and 41 m. Calculate the area of the field.
10. The arithmetic mean of 6 values is 45 and if each value is increased by 4, then find the arithmetic mean of new set of values.
11. The volume of a container is 1440 m³. The length and breadth of the container are 15 m and 8 m respectively. Find its height.

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12. In a distribution, the mean and mode are 66 and 60 respectively. Calculate the median.
13. The following are scores obtained by 11 players in a cricket match 7, 21, 45, 12, 56, 35, 25, 0, 58, 66, 29. Find the median score.
14. Find the total surface area and lateral surface area of the cube, whose to side is 5cm.

PART - III

III. Answer any 5. questions. Q. NO : 21 is compulsory.

5x5=25

15. Find the total surface area and the lateral surface area of a cuboid whose dimensions are length = 20 cm, breadth = 15 cm and height = 5 cm.
16. The dimensions of a fish tank are 3.8 m x 2.5 m x 1.6 m. How many litres of water it can hold?
17. The median of observation 11, 12, 14, 18, $x + 2$, $x + 4$, 30, 32, 35, 41 arranged in ascending order is 24. Find the values of x .
18. The following data gives the number of residents in an area based on their age. Find the average age of the residents.

Age	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
Number of residents	2	6	9	7	4	2

19. Find the mode of the following data.

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
No of students	22	38	46	34	20

20. The following are the marks scored by the students in the Summative Assessment exam.

Class	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No of students	2	7	15	10	11	5

21. In a class test in mathematics, 10 students scored 75 marks, 12 students scored 60 marks, 8 students scored 40 marks and 3 students scored 30 marks. Find the mean of their score.

PART - IV

IV. Answer the following question.

1x8=8

22. (a) Solve graphically. $x - y = 0$; $y + 3 = 0$. (OR)

- (b) Construct an isosceles triangle PQR where $PQ = PR$ and $\angle Q = 50^\circ$, $OR = 7$ cm, Also draw its circumcircle.

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