

Class : 9

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Number

9 1 4 2

THIRD MID TERM TEST - 2024

MATHEMATICS

Time Allowed : 1.30 Hours]

[Max. Marks : 50

PART - A

Choose the correct Answer.

7x1=7

- The semi-perimeter of a triangle having sides 15 cm, 20 cm and 25 cm is
(a) 60 cm (b) 45 cm (c) 30 cm (d) 15 cm
- The perimeter of an equilateral triangle is 30cm. The area is
(a) $10\sqrt{3}$ cm² (b) $12\sqrt{3}$ cm² (c) $15\sqrt{3}$ cm² (d) $25\sqrt{3}$ cm²
- The lateral surface area of a cube of side 12 cm is
(a) 144 cm² (b) 196 cm² (c) 576 cm² (d) 664 cm²
- The total surface area of a cuboid with dimension 10 cm x 6 cm x 5 cm is
(a) 280 cm² (b) 300 cm² (c) 360 cm² (d) 600 cm²
- A particular observation which occurs maximum number of times in a given data is called its
(a) Frequency (b) Range (c) Mode (d) Median
- The mean of 5, 9, x, 17 and 21 is 13, then find the value of x
(a) 9 (b) 13 (c) 17 (d) 21
- The mean of the square of first 11 natural numbers is
(a) 26 (b) 46 (c) 48 (d) 52

PART - B

II. Answer any 9 Questions.

9x2=18

- Using Heron's formula, find the area of a triangle whose sides are 10 cm, 24 cm and 26 cm.
- Find the area of an equilateral triangle whose perimeter is 180 cm.
- Find the Total Surface Area and Lateral Surface Area of the cube, whose side is 5 cm.
- Find the volume of the cube whose side is 10 cm.
- Find the volume of a cuboid whose dimensions are length = 12cm, breadth = 8 cm, height = 6 cm.

V/9/Mat/1

kindly send me your key Answers to our email id - padasalai.net@gmail.com

13. In a week, temperature of a certain place is measured during winter are as follows 26°C , 24°C , 28°C , 31°C , 30°C , 26°C , 24°C . Find the mean temperature of the week.
14. 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.
15. Find the Median of the given data. 36, 44, 86, 31, 37, 44, 86, 35, 60, 61
16. Find the mode of the given data: 3.1, 3.2, 3.3, 2.1, 1.3, 3.3, 3.1.
17. In a distribution, the mean and mode are 66 and 60 respectively. Calculate the median.

PART - C

III. Answer any 5 questions.

5x5=25

18. Find the Total Surface Area and Lateral Surface Area of a cuboid whose dimensions are :
length = 20 cm, breadth = 15 cm, height = 8 cm.
19. The dimensions of a match box are 6 cm x 3.5 cm x 2.5 cm. Find the volume of a packet containing 12 such match boxes.
20. 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.
21. The median of observation 11, 12, 14, 18, $x+2$, $x+4$, 30, 32, 35, 41 arranged in ascending order is 24. Find the value of x .
22. 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

23. The monthly salary of 10 employees in a factory are given below.
5000, 7000, 5000, 7000, 8000, 7000, 7000, 8000, 7000, 5000. Find the Mean, Median and Mode.