

V9M

Virudhunagar District
Common Third Mid Term Test - 2025



Standard 9

Time Allowed: 1.30 Hours

MATHEMATICS

Maximum Marks: 50

Part-A

Answer all the question:

8×1=8

- 1) The perimeter of an equilateral triangle is 30 cm. The area is _____.
a) $10\sqrt{3}$ cm² b) $12\sqrt{3}$ cm² c) $15\sqrt{3}$ cm² d) $25\sqrt{3}$ cm²
- 2) If the lateral surface area of cube is 600 cm², then the total surface area is _____.
a) 150 cm² b) 400 cm² c) 900 cm² d) 135 cm²
- 3) If the ratio of the sides of two cube are 3:4, then ratio of their surface areas will be _____.
a) 6:8 b) 9:16 c) 27:64 d) 9:12
- 4) The capacity of a water tank of dimension 10m × 5m × 1.5m is _____.
a) 75 litres b) 750 litres c) 7500 litres d) 75000 litres
- 5) Mean of 10 observation is 48 and 7 is subtracted to each observation, then mean of new observation is _____.
a) 48 b) 10 c) 7 d) 41
- 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 algebraic sum of the deviation of a set of n values from their mean is _____.
a) 0 b) n - 1 c) n d) n + 1
- 8) The mean of the square of first n natural number is _____.
a) 26 b) 46 c) 48 d) 52

Part-B

Answer any 6 questions. Q.NO.16 is compulsory:

6×2=12

- 9) Find the Total Surface Area and Lateral Surface Area of the cube, whose side is 5 cm.
- 10) Find the area of triangle whose sides are 10 cm, 24 cm and 26 cm.
- 11) The dimensions of a match box are 6 cm × 3.5 cm × 2.5 cm. Find the volume of a packet containing 12 such match boxes.
- 12) A cubical tank can hold 64,000 litres of water. Find the length of its side in metres.
- 13) The mean weight of 4 members of a family is 60 kg. Three of them have the weight 56 kg, 68 kg and 72 kg respectively. Find the weight of the fourth member.
- 14) For the data 11, 15, 17, x+1, 19, x-2, 3 if the mean is 14, find the value of x.

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- 15) In a distribution, the mean and median are 66 and 64 respectively. Calculate the mode.
- 16) Find the median of the given data :
36, 44, 86, 31, 37, 44, 86, 35, 60, 51.

Part-C

Answer any 6 question. Q.NO.24 is compulsory:

6×5=30

- 17) The lengths of sides of a triangular field are 28 m, 15 m and 41 m. Calculate the area of the field. Find the cost of levelling the field at the rate of ₹ 20 per m².
- 18) The dimensions of a hall is 10 m × 9 m × 8 m. Find the cost of white washing the walls and ceiling at the rate of ₹ 8.50 per m².
- 19) The length, breadth and height of a cuboid are in the ratio 7 : 5 : 2. Its volume is 35840 cm³. Find its dimensions.
- 20) The following data gives the number of residents in an area based on their ages. Find the average age of the residents.

Age	0-10	10-20	20-30	30-40	40-50	50-60
No. of Residents	2	6	9	7	4	2

- 21) The mean of five positive integers is twice their median. If four of the integers are 3,4,6,9 and median is 6. Then find the fifth integer.
- 22) Find the mode of the following data.

Marks	0-10	10-20	20-30	30-40	40-50
Number of Students	22	38	46	34	20

- 23) The following table gives the weekly expenditure of 200 families. Find the median of the weekly expenditure.

Weekly expenditure (₹)	0-1000	1000-2000	2000-3000	3000-4000	4000-5000
Number of families	28	46	54	42	30

- 24) A metallic cube with side 15 cm is melted and formed into a Cuboid. If the length and height of the cuboid is 25 cm and 9 cm respectively then find the breadth of the cuboid.
