V9M

Virudhunagar District

www.Padasalai.Net Third Mid Term Test - 2024 Third Mid Term

Standard 9							
Time: 1.	30 Hours	MATHS		Marks: 50			
		Part - I					
Attemp	t all the questions	S		8×1=8			
1)	If the side of a tria	angle are 3cm, 4 cm	and 5 cm, then the	area is			
	a) 3cm ²	b) 6 cm ²	c) 9 cm ²	d) 12 cm ²			
2)	If the ratio of the areas will be	sides of two cubes	are 2 : 3, then ratio	o of their surface			
	a)4:6	b)4:9	c) 6 : 9	d) 16 : 36			
3)	The vol ume of a c height i s	uboid is 660 cm ³ an	d the area of the ba	se is 33 cm ² . Its			
	a) 10 cm	b) 12 cm	c) 20 cm	d) 22 cm			
4)	1 m ³ = litr	res					
	a) 10	b) 100	c) 1000	d) 10000			
5)	Let m be the mid point and b be the upper limit of a class in a continuous frequency distribution. The lower limit of the class is						
	a) 2m – b	b) 2m + b	c) m – b	d) m - 2b			
6)	5) The algebric sum of the deviations of a set of n values from their mean						
	a) 0	b) n – 1	c) n	d) n + 1			
7)	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			
8)	The arithmetic me find the arithmeti	ean of 6 values is 4! c mean of new set o	5 and if each value i f values,.	s increased by 4,			
	a) 45	b) 49	c) 41	d) 51			

Part - II

Attempt 6 questions only. Q.No. 16 is compulsory.

9) Using Heron's formula, find the area of triangle whose sides are 10cm, 24cm, 26cm

6×2=12

- 10) A cube has the Total Surface Area of 486 cm². Find its lateral Surface area.
- 11) A cubical milk tank can hold 125000 litres of milk. Find the length of the sides in meters.
- 12) The length, breadth and height of a cuboid is 120 mm, 10 cm and 8 cm respectively. Find the volume of 10 such cuboids
- 13) Find the mode of the given data:

3.1, 3.2, 3.3, 2.1, 1.3, 3.3, 3.1

- 14) For the following ungrouped data 10, 17, 16, 21, 13, 18, 12, 10, 19, 22. Find the median
- 15) In a distribution, the mean and mode are 66 and 60 respectively. Calculate the median.
- 16) 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 kindly gend me your key answer to our email id Padasalai.net@gmail.com

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Part - III www.Trb Tnpsc.com

Attempt 6 questions only. Q.No. 24 is compulsory.

6×5=30

17) A farmer has a field in the shape of a rhombus. The perimeter of the field is 400 m and one of its diagonal is 120m. He wants to divides the field into two equal parts to grow two different types of vegetables. Find the area of the field.

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- 18) Three identical cubes of side 4 cm are joined end to end. Find the total surface area and lateral surface area of the new resulting cuboid.
- 19) The length, breadth and height of a chocolate box are in the ratio 5:4:3. If its volume is 7500 cm³, then find its dimensions.
- 20) The average mark of 25 studnets was found to be 78.4. Later on it was found that score of 96 was misread as 69. Find the correct mean of the marks.
- 21) Find the mean of the following data:

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	5	.7	15	28	8

22) The following are the marks scored by the students in an examination. Calcuate the median

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

23) 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

24) The side of a metallic cube is 12cm. It is melted and formed into a cuboid whose length and breadth are 18 cm and 16 cm respectively. Find the height of the cuboid.

kindly send me your key answer to our email id - Padasalai.net@gmail.com