



MATHS

BOOKS - VGS BRILLIANT MATHS (TELUGU ENGLISH)

STATISTICS



1. The marks obtained in mathematics by 30 students of Class X of a certain school are given in table below. Find the mean of the marks obtained by the students.



2. The table below gives the percentage distribution of female in the primary schools of rural areas of various states and union territories (U.T) of India . Find the mean percentage of female teachers using all the three methods.

Percentage of female teachers Number of States/U.T

15-25	6
25-35	11
35-45	7
45-55	4
55-65	4
65-75	2
75-85	1

3. The distribution below shows the number of wickets taken by bowlers in one-day cricket matches . Find the mean number of wickets by choosing a suitable method.

What does the mean signify?

Number of wickets	Number of bowlers
25-60	7
60-100	5
100-150	16
150-250	12
250-350	2
350-450	3

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4. The wickets taken by a bowler in 10 cricket matches are as follows: 2, 6, 4, 5, 0, 2, 1, 3, 2, 3. Find the mode of the date.



5. A survey conducted on 20 households in a locality by a group of students resulted in the following frequency table for the number of famialy members in a household

Family size	Number of families
1-3	7
3-5	8
5-7	2
7-9	2
9-11	1

Find the mode of this date.

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6. The marks distribution of 30 students in a mathematics examination are given in the adjacent table. Find the mode of this data. Also, compare and interpret the mode and the mean.



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7. If the maximum value of an observation in the data in

example 4 is changed to 8, would be the mode of the

data be affected? Comment.



8. A survery regarding the heights (in cm) of 51 girls of

Class X of a school was conducted and date was

obtained as shown in table . Find their median .

Height (in cm) Number of girls

Less than 140 4

Less than 145 11

Less than 150 29

Less than 155 40

Less than 160 46

Less than 165 51

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9. The median of the following date is 525. Find the values of x and y, the total frequencey is 100. Here , C.I

stands for class interval and fr for frequency.

CI	\mathbf{Fr}
0 - 100	2
100 - 200	5
200 - 300	x
300 - 400	12
400 - 500	17
500 - 600	20
600 - 700	y
700 - 800	9
800 - 900	7
900 - 1000	4

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Think Discuss

1. The mean value can be calculated from both ungrouped and grouped date . Which one you think is



3. Is the result obtained by all the three methods the

same when finding the mean ?

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4. If x_i and f_i are sufficiently samll , then which method

is an appropriate choice ?

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5. If x_i and f_i are numerically large numbers , then

which methods are appropriate to use ?



6. It depends upon the demand of the situation whether we are intersted in finding the acerage marks obtained by the students or the marks obtained by most of the students .

What do we find in the first situation ?



7. It depends upon the demand of the situation whether we are intersted in finding the acerage marks obtained by the students or the marks obtained by most of the students .

What do we find in the second situation ?





1. Find the mode of the following data.

5,6,9,10,6,12,3,6,11,10,4,6,.

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2. Find the mode of the following data.

20,3,7,13,3,6,7,19,15,7,18,3.



4. Is the mode always at the centre of the data ?



5. Does the mode change , if another observation is

added to the data in Example ? Comment .



Exercise 14 1

1. A survey was conducted by a group of students as a part of their environment awareness programme , in which they collected the follwing data regarding the number of plants in 20 houses in a locality . Find the mean number of plants per house .

Number of plants	Number of houses
0-2	1
2-4	2
4-6	1
6 - 8	5
8 - 10	6
10-12	2
12-14	3

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2. Consider the following distribution of daily wages of

50 workers of a factory.

Daily wages in Rupees	Number of workers
200-250	12
250-300	14
300-350	8
350-400	6
400 - 500	10

Find the mean daily wages of the workes of the factory

by using an appropriate method .



3. The following distribution shows the pocket allowance of children of a locality The mean pocket allowance is Rs18. Find the missing frequency f.

Daily pocket allowance (in Rupees) Number of children

11 - 13	7
13 - 15	6
15-17	9
17-19	13
19-21	f
21-23	5
23-25	4

4. Thirty women were examined in a hospital by a doctor and their of heart beats per minute were recorded and summarised as shown . Find the mean heart beats per minute for these wowen, choosing a suitable method. Daily Number of heart beats /minute Number of women 65 - 682 68 - 714 71 - 743 77 - 80 $\overline{7}$ 80 - 834 83 - 865

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5. In a ratail market , fruit vendors were selling ornges kept in packing baskets . These baskets contained varing numbers of oranges . The following was the distribution of oranges .

Number of oranges	Number of baskets
10 - 14	15
15-19	110
20-24	135
25-29	115
30 - 34	25

Find the mean number of oranges kept in each basket .

Which method of finding the mean did you choose ?

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6. The table below shows the daily expenditure on food

of 25 households in a locality.

Daily expenditure (Rs) Number of households

 $\begin{array}{ccccccc} 100-150 & & 4 \\ 150-200 & & 5 \\ 200-250 & & 12 \\ 250-300 & & 2 \\ 300-350 & & 2 \end{array}$

Find

the mean of expenditure on food of households in a

locality.



7. To find out the concentration of SO_2 in the air (in parts per million , I . e., ppm) , the data was collected for 30 localities in a certain city and is presented below :

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8. A class teacher has the following attendance record of 40 students of a class of for the whole term . Find the

mean number of days a student was present out of 56

days in the term .

Number of daysNumber of students35 - 38138 - 41341 - 444

 $egin{array}{rcl} 44-47&4\\ 47-50&7\\ 50-53&10\\ 53-56&11 \end{array}$

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9. The following table gives the literacy rate (inpercentage) of 35 cities . Find the mean literacy rate .Literacy rate in %Number of cities45 - 5545 - 5555 - 651065 - 751175 - 8585 - 953



Exercise 14 2

1. The following table shows the ages of the patients admitted in a hospital during a year :

Age (in years) Number of patients

5-15	6
15-25	11
25-35	21
35-45	23
45-55	14
55 - 65	5

Find the mode and the mean of the data given above .

Copmare and interpret the two measures of central tendency.

2. The following data gives the information on the observed lifetimes (in hours) of 225 electrical components :

Lifeline (in hours)	Frequency
0-20	10
20-40	35
40-60	52
60 - 80	61
80 - 100	38
100 - 120	29

Determine the modal lifetiemes of components :



3. The following data gives the distribution of total monthly household expenditure of 200 families of a

village .. Find the modal monthly expenditure of the

families. Also, find the mean monthly expenditure:

Expenditure (Rs) Number of families

1000 - 1500	24
1500-2000	40
2000-2500	33
2500 - 3000	28
3000 - 3500	30
3500-4000	22
4000 - 4500	16
4500 - 5000	7



4. The following distribution gives the state-wise , teacher -student ratio in higher secondary schools of India . Find the mode and mean of this data . Interpret

the two measures .

Number of students	Number of states
15-20	3
20-25	8
25-30	9
30-35	10
35-40	3
40-45	0
45-50	0
50-55	2
D Watch Video So	lution

5. The given distrbution shows the numbers of runs scored by some top batsmen of the world in one -day international cricket matches .

Runs	Number of batsmen
3000-4000	4
4000-5000	18
5000-6000	9
6000 - 7000	7
7000-8000	6
8000 - 9000	3
9000 - 10000	1
10000 - 11000	1

Find the mode of the data .

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6. A student noted the number of cars passing through a spot on a road for 100 periods , each of 3 minutes , an

summarised this in the table given below .

Number of cars	Frequency
0 - 10	7
10-20	14
20-30	13
30-40	12
40-50	20
50-60	11
60-70	15
70-80	8

Find the mode of the data .

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Exercise 14 3

1. The following frequency distribution gives the monthly consumption of electricity of 68 consumers of a locality .

Find the mean of the data

Monthly consumption(in units)	Number of consumers
65-85	4
85-105	5
105-125	13
125-145	20
145-165	14
165-185	8
185-205	4

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2. If the median of 60 observations , given below is 28.5 ,

find the values of x and y.

Class interval Frequency

0 - 10	5
10-20	x
20 - 30	20
30-40	15
40-50	y

50 - 60 5



3. A life insurance agent found the following data about disribution of ages of 100 policy holders . Calulate the median age . [Policies are given only to persons having age 18 years onwards but less than 60 years .]





4. The lengths of 40 leaves of a plant are measured correct to the nearest millimetre, and the data obtained is represented in the following table : Find the median

length of the leaves. (Hint: The data needs to be

converted to continuous classes for



5. The following table gives the distribution of the life -

time of 400 neon lamps.

Lif time (in hours)	Number of lamps
---------------------	-----------------

1500-2000	14
2000-2500	56
2500 - 3000	60
3000 - 3500	86
3500 - 4000	74
4000 - 4500	62
4500 - 5000	48

Find the median life -time of a lamp .



6. 100 surnames were randomly picked up from a local telephone directory and the frequency distribution of the number of leltters in the English alphabet in the surnames was obtained as follows .

Number of	lette	rs Nu	mberse of	suri	names		
1-4		6					
4-7		30					
7-10		40					
10-13		16					
13-16		4					
16-19		4					
Determine	the	median	number	of	letters	in	the
surnames .							



7. The distribution below gives the weights of 30 students of a class . Find the median weight of the students .

Weight (in kg) Number of students

40 - 45	2
45-50	3
50-55	8
55-60	6
60-65	6
65-70	3
70-75	2

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Exercise 14 4

1. The following distribution gives the daily income of 50

workers of a factory.

Daily (in Rupees)	Number of workers
250-300	12
300-350	14
350-400	8
400 - 450	6

450 - 500 10

Convert the distribution above to a lessthan type

cumulative frequency distribution, and draw its ogive .



2. During the medical check -up of 35 students of a class ,

their weights were recorded as follows :

Number of students Weight (in kg) Less than 38 0 Less than 40 3 Less than 42 $\mathbf{5}$ Less than 44 9 Less than 46 14 Less than 48 28Less than 50 32Less than 5235

Draw a less than type ogiven for the given data . Hence

obtain the median weight from the graph and verify the

result by using the formula .





 The mean value can be calculated from both ungrouped and grouped date. Which one you think is more accurate ? Why ?

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2. When it is more conveninet to use grouped date for analysis ?

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3. The distribution below shows the number of wickets taken by bowlers in one-day cricket matches . Find the mean number of wickets by choosing a suitable method.

What does the mean signify ?

Number of wickets	Number of bowlers
25-60	7
60 - 100	5
100-150	16
150-250	12
250-350	2
350-450	3



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4. Find the mode of the following data. 5, 6, 9, 10, 6, 12, 3,

6, 11, 10, 4, 6, 7.



5. Find the mode of the following data.

20,3,7,13,3,6,7,19,15,7,18,3.



6. Find the mode of the following data. 2, 2, 2, 3, 3, 3, 3, 4,

4, 4, 5, 5, 5, 6, 6, 6.

(D) Watch Video Solution

7. Is the mode always at the centre of the data ?



8. Does the mode change , if another observation is

added to the data in Example ? Comment .



9. If the maximum value of an observation in the data in example 4 is changed to 8, would be the mode of the data be affected? Comment.

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10. It depends upon the demand of the situation whether we are intersted in finding the acerage marks obtained by the students or the marks obtained by most
of the students .

What do we find in the first situation ?

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11. Can mode be calculated for grouped data with unequal class sizes ?
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12. The wickets taken by a bowler in 10 cricket matches

are as follows: 2, 6, 4, 5, 0, 2, 1, 3, 2, 3. Find the mode of

the date .

13. When an observation in a data is abnormally more than or less than the remaining observation in the data, does it affect the mean or mode or median? Why?



16. Write the first 10 prime numbers and find there median.

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17. Prathyusha stated that "the average of first 10 odd numbers is also 10".Do you agree with her? Justify your answer.

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18. Write the formula for the median of a grouped data.

Explain symbol with their used meaning.



21. Find the mean of prime numbers which are less than

30.



22. Write the formula for mode of a grouped data.

Explain about the symbols with their usual meanings.



23. Write the formula for mode of a grouped data.Explain about the symbols with their usual meanings.





26. Find the missing frequencies f_1 and f_2 if mean of 50

observati	ions		give	ſ	bel	ow	is	36.4.
Class	0-10	10-20	20-30	30 - 40	40 - 50	50 - 60	60 - 70	
Frequency	3.	5	f ₁	10	f2	8	5	



50	,	then	n fin	nd	the	value	of	k.
Class	nev	0-20 1-7	20-40 20	40-60 32	60-80 k	80-100 19		

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28. Temperature recorded in the first week of May 2016 are $36^{\circ}, 32^{\circ}, 34^{\circ}, 30^{\circ}, 42^{\circ}, 40^{\circ}$ and 38° . Then find the average temperature.

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29. In 2016 IPL season T-20 matches VIRAT KOHLI scored

975 runs in 15 matches. So find his average.



32. Find the mode of 5, 6, 9, 6, 12, 3, 6, 11, 6, 7.

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33. 22 students started for a tour with Rs. 3300/-. Two of them dropped with their share Rs. 500/- from the tour. And then remaining completed their tour. So what amount is to be paid in addition by the remaining?

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34. Which central tendency is more useful to express the

ability of a cricketer and why?

Additional Articles in Contraction



36. Write the formula for mode of a grouped data.

Explain about the symbols with their usual meanings.

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37. Where do we use MEAN in day to day life?

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38. In "more than ogive curve" we consider in drawing......

A. more than cumulative frequency, lower limits

B. more than cumulative frequency, upper limits

C. lower than cumulative frequency, lower limits

D. lower than cumulative frequency, upper limits

Answer:



39. Observe the following tables For finding Arithmetic

Mean by Direct method, the suggested frequency

distribution

table

.

Class Interval	Frequency	Class mark	
	(f)	(x) "	fx
Class Interval	Frequency	Lower limit	ĺ
	(f)	(x):	6

- A. Only (1) is true.
- B. Only(2) is true.
- C. (1) and (2) are ture.
- D. None of the above.



40. Median =
$$l + \left[\frac{\left(\frac{n}{2} - cf \right)}{f} \right] \times h$$
, where cf =

A. Cumulative frequency of the class preceding the

median class.

B. Cumulative frequency of the median class.

C. Cumulative frequency of the class succeeding the

median class.

D. Sum of the frequencies.



41. If \bar{x} , is the mean of x_1, x_2, x_3 ,.... x_n (n items) then

$$\sum_{i=1}^n (Xi_{-\overline{X}})$$
=.....

A. 0

B. $n\bar{x}$

C.
$$\frac{x}{n}$$

_ $2\bar{a}$

D.
$$\frac{2\bar{x}}{n}$$





A. frequency of the modal class

B. frequency of class preceding modal class

C. frequency of class succeeding in the modal class

D. Cumulative frequenty of the class preceding the

modal class

Answer:

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43. The X-coordinate of the point of intersection of the

two ogives of grouped data is......

A. median of the data

B. mode of the data

C. mean of the data

D. average of mid values of the data

Answer:

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44. 3, 2, 4, 3, 5, 2, x, 6. If the mode of this data is 3, then x

=

A. 4

B. 3

C. 2

D. 5

Answer:

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45. For the terms, x + 1, x + 2, x - 1, x + 3 and x - 2 (x in N), if

the median of the data is 12, then $x = \dots$

A. 9

B. 10

C. 11

D. 13



46. Which of the following is not a measure of central

tendency?

A. Mean

B. Median

C. Range

D. Mode

Answer:

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47. The most stable measure of central tendency is

A. Mean

B. Median

C. Mode

D. Deviation

Answer:

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48. If the less than type Ogive and more than type Ogive intersect each other at (42, 18), then the median of the given data is

A. 60

B.42

C. 18

D. 26

Answer:

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49. The mean of a set observations is \bar{x} . If each observation if divided by $\alpha (\neq 0)$ and it is increased by 10, then the mean of the new set is

A.
$$rac{ar{x}}{n}+m$$

B.
$$ar{x} + rac{n}{m}$$

C. $ar{x} + rac{m}{n}$
D. $rac{ar{x}}{m} + n$

Answer:



50. If 14 is deleted from the data 12, 14, 15, 16, 17, 18, 19 and 20, then the median increases by

A. 1

B. 1.5

C. 2

D. 0.5

Answer:



51. The mean of the first eight multiples of 3 is

A. 8

B. 0.54513888888889

C. 13.5

D. 27





D. $\frac{(\text{upper boundary - lower boundary})}{2}$



53. If mode of the following data is 7, then the value of 6,

3, 5, 6, 7, 5, 8, 7, 6, 2k + 1, 9, 7, 13 is

A.
$$\frac{5}{2}$$

B. 3

C. 7

D. 5



54. Mode of the following distribution is

Class Interval	0 - 20	20 - 40	40 - 60	60 - 80		
Frequency	15	6	- 18	10		

A. 50

B. 56

C. 52

D. 54



55. Which of the following is not a measure of central

tendency?

A. Mean

B. Median

C. Range

D. Mode

Answer:



56. For a symmetrical distribution, which is correct ?

A. Mean < Mode < Median`

B. Mean > Mode > Median

C. `"Mode"="(Mean+Median)"/2

D. Mean = Median = Mode

Answer:

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57. The measure of central tendency which take into

account all data terms is

A. Mode

B. Mean

C. Median

D. None of these

Answer:

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58. A data arrange in descending order has 25 observations. Which observation represents the median

A. 12th

?

B. 13th

C. 14th

D. 12^th

Answer:



59. Construction of cumulative frequency table is useful

in determining the

A. Mean

B. Median

C. Mode

D. All the above



60. For a given data with,60 observations, 'the less than ogive' and 'the more than ogive' intersect at (66.5, 30). The median of the data is

A. 30

B. 66.5

C. 60

D. 36.5



61. For a given data with 50 observations 'the less than ogive' and the more than ogive intersect at (15.5, 20). The median of the data is

A. 10.5

B. 4.5

C. 20

D. 15.5



62. The abscissa of the point of intersection of the less than type and 'more than type' cumulative frequency curves of a grouped data gives its

A. Mean

B. Median

C. Mode

D. None



63. Find the median of the following data

Class Interval	10-25	25-40	40-55	55-70	70-85	85-100
Frequency	2	3	7	6.	6	6

A. 5

B.40

C. 80

D. 20



64. For a distribution with odd number (n) of observations, the median is th observation.

A.
$$\frac{n}{2}$$

B. $\frac{n-1}{2}$
C. $\frac{n+1}{2}$
D. $\frac{n}{2}-1$

Answer:



65. For a distribution with even number (n) of observations, the median is terms.

A.
$$\frac{1}{2}\left[\frac{n^{th}}{2} + \left(\frac{n}{2} + 1\right)^{th}\right]$$

B. $\frac{1}{2}\left[\frac{n}{2} - \frac{n-1}{2}\right]$
C. $\frac{n}{2} + \frac{n+1}{2}$

D. none

Answer:

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66. For a continuos grouped frequency distribution the

meidan is given by

A.
$$l - \left(rac{rac{n}{2} - f}{c}
ight)h$$

B. $l - \left(rac{rac{n}{2} - cf}{f}
ight) imes h$

$$\mathsf{C.}\,l^2+\frac{\frac{n}{2}-cf}{h}$$

D. none

Answer:

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67. Class marks of a class x-y is

A.
$$rac{x}{2} + y$$

B. $rac{x}{2}$
C. xy
D. $rac{x+y}{2}$
Answer:



68. Mode of a continuous grouped distribution is

$$egin{aligned} \mathsf{A}.\, l + rac{f_1 - f_0}{(f_1 - f_0) + (f_1 - f_2)} imes h \ \mathsf{B}.\, l + rac{f_1 - f_0}{f_1 - f_0} imes h \ \mathsf{C}.\, l^2 + rac{f_1 - f_0}{f_1 - f_0 + f_2} imes h \end{aligned}$$

D. none



69. If assumed mean is a then mean=......

A. $a^2+\Sigma f_i d_i$ B. $a+\Sigma f_i d_i$ C. $a-\Sigma f_i$ D. $a+rac{\Sigma f_i d_i}{\Sigma f_i}$

Answer:

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70. Mode is the value of variate which occurs number of times. A. 2

B. maximum

C. minimum

D. none

Answer:

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71. If each observation of a data is increased by 'a' then

mean is increases by

A. a^2

B.a

D. a + 1

Answer:







A.
$$\frac{x}{a}$$

 $\mathsf{B}.\,\frac{x}{a}-1$

 $\mathsf{C}. x - a$

D. xa



74. Mean of 1, 2, 3,..., n is

A.
$$rac{n}{2}-1$$

B. $rac{n}{2}$
C. $rac{n+1}{2}$

D. none

Answer:

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75. A.M. of 23, 24, 24, 22, 10 is

A. 21.6

B. 22.6

C. 12.6

D. 81.6

Answer:

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76. Mode of 1, 2, 3, ... 10, 10 is

A. 1

B. 0

C. no mode

D. 10

Answer:
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77. Find the mode of the following data. 5, 6, 9, 10, 6, 12, 3,
6, 11, 10, 4, 6, 7.
A. 8
B. 7
C. 6
D. 5
Answer:

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78. Mode of 20, 3, 7, 13, 3, 4, 6, 7, 19, 15, 7, 18, 3 is

A. 3, 7

B. 7, 10

C. 13, 3

D. none

Answer:

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79. Mode of 0, 1, 2, 3, 3, 3, 7 is

A. 3

B. 0

C. 1

D. 9

Answer:

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80. Representing the data with the help of pictures is

called

A. data

B. pictography

C. bar graph

D. none

Answer:

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81. Mid value of the class 10 - 20 is

A. 13

B. 12

C. 10

D. 15

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82. Histogram consists of	
A. rectangles	
B. circles	
C. triangles	
D. none	
Answer:	
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83. Pie diagram consists of

A. circles

B. sectors

C. rectangles

D. none

Answer:

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84. Data having two modes is called data.

A. unimodal

B. bimodal

C. trimodal

D. none

Answer:

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85. Mid values are used to calculate

A. mean

B. mode

C. median

D. none

Answer:
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86. 1-8, 9-16, 17-24,అయిన C.I=
A. 12
В. 10
C. 9
D. 8
Answer:
Watch Video Solution

87. Range of 1, 2, 3, 10 is

A. 13

B. 12

C. 8

D. 9

Answer:

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88. Mean of 7, 6, 5, 0, 7, 8, 9 is

B. 8

C. 9

D. none

Answer:

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89. If mode of a distribution is 8 and its mean is 8 then

median is

A. 6.1

B. 18.2

C. 9

D. 8

Answer:



90. If the mean of 10, 12, 18, 13, P and 17 is 15, find the value of P.

A. 20

B. 10

C. 30

D. 12



A. 8.1

B. 7.3

C. 6.5

D. 5.6

Answer:



92. The median of the data 5, 3, 10, 7, 2, 9, 11, 2, 6 is

A. 6

B. 2

C. 1

D. none

Answer:

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93. Mode of first 'n' natural numbers is

A. n-1

 $\mathsf{B.}\,n^2$

 $\mathsf{C}.\,n+1$

D. no mode

Answer:

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94.is effected by extreme values.

A. Mean

B. Mode

C. Median

D. None





95. Mean of - 8, - 4 and 4, 8 is

A. -4

B. 8

C. 0

D. 7

Answer:



96. Range of first 5 natural numbers is......

A. 9

B. 0

C. 5

D. 4

Answer:

.....

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97. Empirical relation among mean, median and mode is

A. mode = 3 median - 2 mean

B. mode = 2 median - mean

C. mode = 3 median - mean

D. all the above

Answer:

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98. AM of
$$1^2$$
, 2^2 , 3^2 , 4^2 20^2 =.....

A. 40

B. 50

C. 60

D. none





100. A data has 13 observations arranged in descending order which observation represents the median of data?

A. 17^{th}

 ${\rm B.}\,6^{th}$

 $\mathsf{C.}~7^{th}$

D. none



101. In the formula of mode in the grouped data I represents

A. upper boundary

B. lower boundary

C. limit

D. lower limit of the class with highest frequency

Answer:



102. In an arranged series of an even number 2n terms

the median is

A.
$$rac{1}{2}(n+1)^{th}$$

B. $rac{1}{2}ig(n^{th}+(n+1)^{th}termig)$
C. $rac{1}{2}ig(n^{th}ig)$

D. none

Answer:

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103. AM of 1, 2, x, 3 is 0 then x =

A. -6

B. 6

C. 7

D. none

Answer:



104. AM of first n odd numbers is ...

A. 2n

 $\mathsf{B.}\,n^2$

 $\mathsf{C.}\,n\,/\,2$

D. n





105. Mean of 6,
$$-4, \frac{2}{3}, \frac{5}{4}, \frac{7}{6}$$
 is

A.
$$\frac{12}{7}$$

B. $\frac{11}{4}$

C.
$$\frac{11}{20}$$

D. none



106. The AM of 10 consecutive numbers starting with n +

1 is

A. x + 5

B. x + 5.5

C. x - 5

D. none



107.
$$ar{x}=2p+q$$
, $M=p+2q$ then Z =

A. 4q-p

B.q-4p

 $\mathsf{C.}\,4q+p$

 $\mathsf{D}.\,p-q$

Answer:

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108. The information collected is called

A. median

B. mean

C. mode

D. data

Answer:

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109. In a data mean = 72.5 and median = 73.9 then mode

is

A. 70.7

B. 69.1

C. 60.2

D. none



A. x + 1

B. 4

C. 3

D. no mode

Answer:



111.is based on all observations.

A. Mean

B. Median

C. Mode

D. None

Answer:

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112. The mean of first 5 odd multiples of 5 is

A. 25

B. 20

C. 35

D. 15

Answer:

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113. Median = 52.5, mean = 54, use empirical relation and

find mode =

A. 48.5

B. 60.1

C. 49.5

D. 40.5


A. 28

B. 16

C. 82

D. 20

Answer:

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115. Find the sum of lower limit of median class and

upper limit of modal class is

Class	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	1	3	5	9	7	3

A. 60

B.40

C. 50

D. 90

Answer:

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116.of all bars is same in bar graph.

A. width

B. length

C. circle

D. none

Answer:

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117. For a given data with 120 observations, the 'less than ogive' and the 'more than ogive' intersect at (42.5,60) the median of the data is......

A. 42.5

B. 32.7

C. 90.2

D. none

Answer:

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118. Consider the following frequency distribution. The number of families having income range from ₹16000 to

Monthly income	Number of families
More than or equal to 10000	100
More than or equal to 13000	85
More than or equal to 16000	69
More than or equal to 19000	50
More than or equal to 22000	33
More than or equal to 25000	15

A. 19

B. 10

C. 20

D. none

Answer:

119. Unimodal data may have modes.

A. 4

B. 6

C. 2

D. 1

Answer:



A. 1

B. 10

C. 12

D. 8

Answer:

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121. In calculating mode Δ_1 =.....

A. $f-f_1$

 $\mathsf{B}.\,f-f_2$

 $\mathsf{C}.\,f_1-f_2$

D. none

Answer:





A. 10

B. 9

C. 8

D. 7

Answer:

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123.
$$\sum f_x=200, n=20$$
 అయిన $ar{x}$ =....

A. 29

B. 16

C. 10

D. 20

Answer:



125. Mean - mode =

A. 3 (mean - median)

B. (mean - 2median)

C. 2mean - median

D. none

Answer:

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126. 1/3, 7/12, 3/4, 1/2, 5/6, AM.....

B. 12

C. 10

D. none

Answer:

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A. 3.1

B. 4

C. 3.5

D. none

Answer:



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129. Median of first 8 prime numbers is

A. 9

B. 2

C. 3

D. none

Answer:

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130. If the mean of the data 2, a + 1, a - 2 is 4 then a =.....

B. 3

C. 9

D. 10

Answer:

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131. 5, 7, 9, x, ల AM 9 అయిన x=....

A. 19

B. 11

C. 10

D. 15

Answer:
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132. is known as father of statistics.
A. Cayley
B. Thales
C. Fisher
D. None
Answer:
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133. In a data maximum value = x, minimum value = y then

Range =

A. x - y

 $\mathsf{B.}\,x+y$

C. x - 1

D. x + 1

Answer:



134. The sum of all deviations taken from AM =

A. 1

B. 0

C. -1

D. 2

Answer:

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135. Mode of 2004, 2005, 2006 2014 is

A. 2004

B. 2014

C. 2009

D. no mode

Answer:

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136. Construction of cumulative frequency table is useful

in determining the

A. Median

B. Mode

C. Mean

D. None

Answer:



137. Cumulative frequency curves are called as

curves.

A. median

B. scale

C. ogive

D. none

Answer:

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138. 8, 6, 4, x, 3,6, 0 ల సగటు 4 అయిన x విలువ.....

A. 7

B. 6

C. 1

D. 4

Answer:

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139. The extreme values of some data influences high

on.....

A. AM

B. Median

C. Mode

D. Range

Answer:

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140. In a data 'n' scores are given and if 'n' is odd, then

median is

A.
$$\left(rac{n+1}{2}
ight)^{th}$$
 event

B. n^{th} event

C.
$$\left(rac{n-1}{2}
ight)^{th}$$
 event
D. $\left(n-1
ight)^{th}$ event

Answer:

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141. 10-25 తరగతి మార్కు.....

A. 10

B. 25

C. 17.5

D. 17



143. Class interval of the class 11-20 is

A. 9

B. 10

C. 11

D. 20

Answer:



144. AM of 1, 2, x, 3 is 0 then x =

A. 6

B. -6

C. 3

D. -3

Answer:

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145. If the sum of 15 observations is 420 then their mean

=

A. 28

B. 26

C. 24

D. 30

Answer:

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146. The mid value of the class 10-19 is

A. 12.5

B. 13.5

C. 14.5

D. 24.5

Answer:

