



IITJEE Foundation Practice paper

STATISTICS

class-9-Mathematics Number of Questions: 42

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1

Statistic is a numerical quantity, which is calculated from:

- Population Sample Data Observations

2

In statistics, conducting a survey means

- Collecting information from elements Making mathematical calculations
 Drawing graphs and pictures None of the above

3

The algebraic sum of deviations from mean is

- Maximum Zero Minimum Undefined

4

the sample of ages (in months) of 18 children at a day care: 36, 42, 18, 32, 22, 22, 25, 29, 30, 31, 19, 24, 35, 29, 26, 36, 24, 28

The median age of the children is

- 29 28.2 30.5 28.5

5

The arithmetic mean of a set of 10 numbers is 20. If each number is first multiplied by 2 and then increased by 5, then what is the mean of new numbers ?

- 20 25 40 45

6

The mean of 25 observations is 36. The mean of first 13 observations is 32 and that of last 13 observations is 39. What is the value of 13th observation?

- 20 23 32 40

7

The average age of 6 persons living in a house is 23.5 years. Three of them are majors and their average age is 42 years. The difference in ages of the three minor children is same. What is the mean of the ages of minor children ?

- 3 years 4 years 5 years 6 years

8

What is the weighted mean of first 10 natural numbers whose weights are equal to the corresponding number?

- 4.5 5 5.5 7

9

In a class of 45 students a boy is ranked 20th. When two boys joined, his rank was dropped by one. What is his new rank from end?

- 25th 26th 27th 28th

10

The mean age of combined group of men and women is 25 years. If the mean age of group of men is 26 and that of group of women is 21, then percentage of men and women in the group respectively is

- 60, 40 80, 20 30, 70 50, 50

11

Sum of mode and median of the data
12, 15, 11, 13, 18, 11, 13, 12, 13

- 25 26 31 36

12

The arithmetic mean (average) of the first ten whole numbers is

- 4 4.5 5 5.5

13

The mean of 9 observations is 16. One more observation is included and the new mean becomes 17. The 10th observation is

- 17 18 26 28

14

Difference of mode and mean is equal to

- $3(\text{mean} - \text{median})$ $2(\text{mean} - \text{median})$ $3(\text{median} - \text{mean})$
 $2(\text{mode} - \text{mean})$

15

If mean is 11 and median is 13 then value of mode is

- 11 13 15 17

16

If value of mode is 14 and value of arithmetic mean is 5 then value of median is

- 8 12 14 18

17

The mean of five numbers is 18. if one number is excluded, then their mean is 16. The excluded number is

- 20 22 24 26

18

The mean of 100 items was found to be 30. But at the time of calculation two items were wrongly taken as 32 and 12 instead of 23 and 11. Find the correct mean.

- 29.80 28.80 29.90 28.90

19

If the mean of 6, 4, 7, P and 10 is 8, then the value of 'P' is

- 12 13 14 15

20

The mean weight per student in a group of 7 students is 55 kg. The individual weights of 6 of them (in kg) are 52, 54, 55, 53, 56 and 54. The weight of the seventh student is

- 60 kg 61 kg 62 kg 63 kg

21

The mean of 1200 items was 50. Later on, it was discovered that the two items were misread as 92 and 8 instead of 192 and 88. The correct mean is

- 50 49.9 50.15 50.9

22

The mean of a data is 'P'. if each observation is multiplied by 3 and then 1 is added to each result, then the mean of the observation so obtained is

- P 3P P + 1 3P + 1

23

The mean of 20 observations is 12.5. if by mistake, an observation was noted as -15 instead of 15, then the correct mean is

- 10 12 14 16

24

The mean of 9 observations is 36. if the mean of first 5 observations is 32 and that of the last 5 observations is 39, then the fifth observation is

- 28 31 43 37

25

If the average of A and B is 25, B and C is 28 and C and A is 22, then the average of A, B and C is

- 23 24 25 26

26

The mean of $\frac{1}{3}$, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{1}{2}$ and $\frac{7}{12}$ is

- $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$

27

The average age of 5 teachers is 28 years. If one teacher is excluded, then the mean gets reduced by 2 years. the age of the excluded teacher is

- 26 years 33 years 36 years 30 years

28

The mean of first six multiples of 4 is

- 13.5 14.5 14 16

29

If in a given data 10 numbers are arranged in increasing order and the 7th entry is increased by 4 then the median increased by

- 0 4 6 5

30

The median of the data 46, 64, 87, 41, 58, 77, 35, 90, 55, 33, 92 is

- 87 77 58 60.2

31

if each frequency of a data is increased by 5, then the mean is

- Remains the same Increase by 5 Decrease by 5 can't be determined

32

If the mean of $x - 5y$, $x - 3y$, $x - y$, $x + y$, $x + 3y$ and $x + 5y$ is 12, then the value of x is

- 18 12 10 Data insufficient

33

The median of the data given below 2, 7, 9, 13, 20, 22, 24, 25, 27, 28, 35, 40 is

- 22 23 24 25

34

The mean of 11 observations is 17.5. If an observation, 15 is deleted, then the mean of the remaining observation is

- 16 17.75 17.5 17.25

35

The mean of first 5 prime number is

- 5.6 3.6 6.83 5.2

36

The mean weight of 6 men whose weights (in kg) are 62, 65, 69, 66, 61 and X is 65. The median is

- 65.5 66 65 66.5

37

The mean of 10 observations is 25. If one observation 25 is deleted then the new mean is

- 20 22 25 28

38

If each number in a given data is reduced by 10%, then the mean will be reduced by

- 5 % 10 % 15 % 20 %

39

The mean of 15 observations of data is calculated as 22.5. If one more observation included, then the mean becomes 24. The value of this 16th observation is

- 49.75 46.5 55 27.75

40

The observations 53, 57, 58, 64, 66, 67, $x+2$, $x+6$, 80, 83, 87, 90, 94 and 96 have been arranged in ascending order. If the median of the data is 74, then the value of x will be

- 68 70 72 76

41

Among the 100 employees, the average salary of 99 employees is Rs. 50. If the 100th employee has the salary exceeding the average of 100 employees by Rs. 49.50, then the average salary of all the employee is

- 49 49.50 50 50.50

42

The median of the scores 13, 23, 12, 18, 26, 19, 14 is

- 13 14 18 26

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