



CLASS: IX

SUBJECT - MATHS

TOPIC : STATISTICS

Dated : 12.06.2020

WORKSHEET # 18

STATISTICS

This worksheet is based on the topic mentioned above and has a set of 13 questions which you are to solve in 60 min. after going through the worksheets on statistics.

- Find the mean of 8, 12, 16, 22, 10 and 4. Find the resulting mean, if each of the observations, given above, be :
 - multiplied by 3.
 - divided by 2.
 - multiplied by 3 and then divided by 2.
 - increased by 25%.
 - decreased by 40%.
- The mean of 18, 24, 15, $2x + 1$ and 12 is 21. Find the value of x .
- The mean of 6 numbers is 42. If one number is excluded, the mean of remaining numbers is 45. Find the excluded number.
- The mean of 10 numbers is 24. If one more number is included, the new mean is 25. Find the included number.
- The following observations have been arranged in ascending order. If the median of the data is 78, find the value of x .
44, 47, 63, 65, $x+13$, 87, 93, 99, 110.
- The following observations have been arranged in ascending order. If the median of these observations is 58, find the value of x .
24, 27, 43, 48, $x-1$, $x+3$, 68, 73, 80, 90.
- Find the mean of the following data :
30, 32, 24, 34, 26, 28, 30, 35, 33, 25
 - Show that the sum of the deviations of all the given observations from the mean is zero.
 - Find the median of the given data.
- Find the mean and median of the data :
35, 48, 92, 76, 64, 52, 51, 63 and 71.
If 51 is replaced by 66, what will be the new median ?
- The mean of x , $x+2$, $x+4$, $x+6$ and $x+8$ is 11, find the mean of the first three observations.
- Find the mean and median of all the positive factors of 72.
- The mean weight of 60 students in a class is 40 kg. The mean weight of boys is 50 kg while that of girls is 30 kg. Find the number of boys and girls in the class.
- The average of n numbers $x_1, x_2, x_3, \dots, x_n$ is A . If x_1 is replaced by $(x+a)x_1$, x_2 is replaced by $(x+a)x_2$ and so on. Find the new average.
- The heights (in cm) of the volley-ball players from team A and team B were recorded as :
Team A : 180, 178, 176, 181, 190, 175, 187
Team B : 174, 175, 190, 179, 178, 185, 177
Which team had the greater average height ?
Find the median of team A and team B.

SUGGESTED VIDEO

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