

Measures of Central Tendency (Mean)

Assignment - Class XI

- Calculate the arithmetic average of the marks obtained by 10 students in a particular subject given below using (i) Direct Method (ii) Short-cut Method.
S.No.: 1 2 3 4 5 6 7 8 9 10
Marks: 180 160 172 150 140 152 155 165 168 158
- Calculate the arithmetic average from the following data using Step-Deviation Method.
Size of Items: 50 100 150 200 250 300 350 400
- Calculate arithmetic average of the following series using (i) Direct Method (ii) Short-cut Method.
Size: 5 10 15 20 25 30
Frequency: 12 15 20 25 18 10
- From the following data find out the value of arithmetic average using Step-Deviation Method:

X: 110 120 130 140 150 160

F: 5 10 15 12 5 3
- Calculate arithmetic average of the following data using (i) Direct Method (ii) Short-cut Method (iii) Step-Deviation Method.
Wages(Rs.): 0 – 10 10 – 20 20 – 30 30 – 40 40 – 50 50 - 60
No. of Workers: 4 10 12 16 5 3
- Calculate the mean of frequency distribution of monthly wages of workers in a factory:
Monthly wages(Rs): 100 – 120 120 – 140 140 – 160 160 – 180 180 – 200
No. of Workers: 10 20 30 15 5
- From the following data, calculate the arithmetic average:

Income(Rs)	No. of persons
Less than 10	20
Less than 20	25
Less than 30	40
Less than 40	60
Less than 50	85
Less than 60	100
- Find out the average wage of the following data:

Wages(Rs.)	No. of workers
More than 0	200
More than 10	180
More than 20	130
More than 30	115
More than 40	70
More than 50	40
More than 60	15
More than 70	5
- From the following data, calculate the arithmetic average:
Marks: 1 – 5 6 – 10 11 – 15 16 – 20 21 – 25
No. of students: 3 2 1 3 1
- The mean marks of 100 students was found to be 50. Later on it was discovered that marks 45 were misread as 54. Find the correct mean.
- In a certain factory, there are 100 male workers and 80 female workers. Their mean wages are Rs. 50 and Rs. 40 respectively. Find the combined mean of all the 180 workers.
- The mean marks of 100 students (80 boys and 20 girls) is 60. The mean marks of 80 boys is 65. Find the mean marks of 20 girls.
- From the following figures, find out the missing value when arithmetic average is 26.6.
Value: 5 15 ? 35 45
Frequency: 4 8 20 12 6
- From the following figures, find out the missing frequency when arithmetic average is 24.5
Marks: 5 15 25 35 45
No. of students: 8 12 ? 15 5