

Topic: Measures of Central Tendency

1. Find arithmetic mean for the following data:

a. Age in year :      0-10   10-20   20-30   30-40   40-50   50-60

No. of person :      5       15       15       20       8       4

b. 34,78,12,90,54,34,40

c. X :      5      10      15      20      25

F :      3      1      4      2      10

2. For 200 workers from factory A, the arithmetic mean and standard deviation of daily wages are 120 and 10 respectively. For 150 workers from factory B the corresponding figures are 100 and 20 respectively. Find the combined arithmetic mean and standard deviation of wages if both the groups are taken together.

3. Find the weighted mean for the given data:

X :      28      29      25      32      40

W :      3      7      4      5      2

4. The mean of 16 items was found to be 30. On rechecking, it was found that one item was wrongly taken as 22 instead of 32. Find the correct mean.

5. Calculate Mode for the following data.

a. 12, 34, 11, 45, 23, 12, 20, 11, 12, 23, 12

b. C.I      120-125      125-130      130-135      135-140      140-145      145-150

f      7      10      18      20      12      7

6. Find the median for the following data:

a. 2, 9, 7, 3, 4, 12, 5, 6, 8, 2

b. 12, 45, 23, 9, 12, 7, 1

c. Class interval      0-5      5-10      10-15      15-20      20-25

frequency      15      23      25      22      10

d. Marks      0-9      10-19      20-29      30-39      40-49      50-59

No. of student      12      18      30      20      15      5

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7. Prepare the cumulative frequency table of

- a) Less than type,                      b) Greater than type,

For the following frequency distribution of 100 workers.

Age in year	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
No. of worker	3	9	15	25	23	12	10	3

Also state how many workers are?

(a) Less than or equal to 40 year?

(b) Greater than or equal to 50 year?

8. Draw histogram and locate the mode.

Sales in 000's	80-90	90-100	100-105	105-110	110-120	120-130
No of companies	110	125	145	143	100	96

9. The following data give the fine paid by the defaulters in a particular class.

Draw Histogram and hence find mode.

Fine paid	20-40	40-60	60-80	80-100	10-120
Defaulters	7	22	40	38	21

10. Draw o-give curve for the following data and hence locate the quartile.

Daily wages	20-40	40-60	60-80	80-100	100-120	120-140
No of worker	7	12	16	13	10	4

11. Find the missing term for the given data where AM is 33.5.

C.I	:	0-10	10-20	20-30	30-40	40-50
F	:	4	16	60	?	40

12. Find the missing term for the given data where median is 46

C.I	:	10-20	20-30	30-40	40-50	50-60
F	:	7	2	?	12	19

13. Find the missing term for the given data where mode is 320

C.I	:	100-300	300-500	500-700	700-900
F	:	23	30	?	20