

**CLASS –XI  
ASSIGNMENT- 15**

**SUBJECT – MATHEMATICS  
TOPIC - STATISTICS**

Q1. Coefficients of variation of 2 distributions are 70% & 75%, & S.D. are 28 & 27 respectively. Find their arithmetic means?

Q2. For a group of 200 candidate the mean and S.D. were found to be 40 and 15 respectively. Later on it was found that the score 43 was misread as 34. Find the correct mean and correct S.D.

Q3. Find the mean deviation about the median of the following frequency distribution:-

Class	0-6	6-12	12-18	18-24	24-30
Frequency	8	10	12	9	5

Q4. The following table gives the distribution of income of 100 families in a village. Calculate mean and variance.

Income (in Rs.)	0-1000	1000-2000	2000-3000	3000-4000	4000-5000	5000-6000
No. of families	18	26	30	12	10	4

Q5. Find the mean deviation from the mean and from median of the following distribution:-

Marks	0-10	10-20	20-30	30-40	40-50
No. of students	5	8	15	16	6

Q6. Calculate the mean, median and standard deviation of the following distribution:-

C.I.	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70
F	2	3	8	12	16	5	2	3

Q7. An analysis of monthly wages paid to workers of two firms A & B belonging to the same industry gives following result:

	Firm A	Firm B
No. of workers	1000	1200
Average monthly wages	Rs. 2800	Rs. 2800
Variance of distribution of wages	100	169

in which firm, A or B is there greater variability in individual wages ?

Q8. The mean of 5 observations is 4.4 & their variance is 8.24. If three of observations are 1, 2 & 6, find other two observations.

Q9. From the data given below state which group is more variable G<sub>1</sub> or G<sub>2</sub>?

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Group G <sub>1</sub>	9	17	32	33	40	10	9
Group G <sub>2</sub>	10	20	30	25	43	15	7

Q10. Find the mean deviation about the median for the following data:-

$x_i$	10	15	20	25	30	35	40	45
$f_i$	7	3	8	5	6	8	4	9

Q11. Find the mean deviation about the median for the data given:-

22, 24, 30, 27, 29, 31, 25, 28, 41, 42

Q12. Calculate the mean, variance and standard deviation for the following distribution :-

Marks	above 30 & below 40	below 50	below 60	below 70	below 80	below 90	below 100
No. of Students	3	10	22	37	45	48	50