

Statistics Assignment

Example 1.19

Calculate the value of mode for the following frequency distribution :

Class	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40
Frequency	2	5	8	9	12	14	12	15	11	13

Solution





The grades 4, 5, 6, 7, 8, 9 are given to 100 students. Find the average grade of that class.

Grade	4	5	6	7	8	9
No. of Students	10	12	20	24	30	4

Question 2



8. Compute the median for the following frequency distribution. Also calculate Q_1 , Q_3 and P_{72} .

CI	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60	Less than 70	Less than 80	Less than 90	Less than 100
F	0	4	16	30	46	66	82	92	100

Solution :

4

1. Calculate the mode for the following frequency distribution.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	5	8	7	12	28	20	10	10

Solution :

Since, mode for the data is also 12, the mean deviation from mode is also 0.9.

Example : 11

Find the mean deviation from the mean for the following data :

C. I	0-10	10-20	20-30	30-40	40-50	50-60	60-70
f	8	12	10	8	3	2	7

Solution :



Example : 14

Calculate the standard deviation, variance and coefficient of variation for the following data :

Marks	2	5	6	7	9
No. of Students	2	3	8	5	2

Solution :