

IX - Mathematics Assignment No-02-StatisticsMeasures of Central Tendency

(Q1) If the mean of 10, 12, 18, 13, β and 17 is 15. Find the value of β .

(Q2) The following observations have been arranged in the ascending order. If the median of the data is 63. Find x

29, 32, 48, 50, x , $x+2$, 72, 78, 84, 95

(Q3) Find mean of the following data

x_i	10	15	20	25	30	35	40
f_i	4	6	8	18	6	5	3

(Q4) If the mean of 10 observations is 20 and that of another 15 observations is 16. Find the mean of all 25 observations.

(Q5) The mean of 13 items is 14. If the mean of first 7 items is 12 and that of the last 7 items is 16. Find the 7th item.

Cont Pg-2

(Q6) Find the mode of 3, 4, 6, 5, 7, 5, 8, 5, 3, 2. If one observation 5 is replaced by 3, will the modal value change? If yes, find it.

(Q7) For what value of x , the mode of the following data is 10?

7, 6, 10, 8, 10, x , 7, 5, 12, 14

(Q8) For the numbers

23, 25, 21, 30, 37, 46, 49, 41, show that $\sum_{i=1}^8 (x_i - \bar{x}) = 0$

(Q9) Find the median of the following data 31, 15, 19, 12, 30, 45, 60, 50, 25, 40. If 40 is replaced by 20, what will be the new median?

(Q10) Verify the Empirical formula for the following data

2, 3, 2, 5, 6, 3, 4, 7, 4, 9

ANSWERS

S.No.	1	2	3	4	5	6	7	9
Ans.	20	62	24.3	17.6	14	5 yes 3	10	30.5 27.5