

Maths : Statistics

1. Find the range and coefficient of range of the following data : 25, 67, 48, 53, 18, 39, 44.
2. The range of a set of data is 13.67 and the largest value is 70.08. Find the smallest value.
3. The marks scored by 10 students in a class test are 25, 29, 30, 33, 35, 37, 38, 40, 44, 48. Find the standard deviation.
4. Find the standard deviation of the data 2, 3, 5, 7, 8. Multiply each data by 4. Find the standard deviation of the new values.
5. Refer Pg. No. 310
Example sums : 8.11 to 8.14.
6. A teacher asked the students to complete 60 pages of a record note book. Eight students have completed only 32, 35, 37, 30, 33, 36, 35 and 37 pages. Find the standard deviation of the pages yet to be completed by them.
7. Find the standard deviation of first 21 natural numbers.
8. Refer Pg. No.312
Exercise 8.1
Sums nos: 12 and 13 .
9. The mean and variance of seven observations are 8 and 16 respectively. If five of these are 2, 4, 10, 12 and 14, then find the remaining two observations.
10. The standard deviation and mean of a data are 6.5 and 12.5 respectively. Find the coefficient of variation.
11. Refer Pg.No.315
Example sums: 8.17.
12. If $n=5$, $\bar{x} = 6$ ($\bar{x} = 6$) $\sum x^2 = 765$, then calculate the coefficient of variation.

13. Find the coefficient of variation of 24, 26, 33, 37, 29, 31.

14. The total marks scored by two students Sathya and Vidhya in 5 subjects are 460 and 480 with standard deviation ,4.6 and 2.4 respectively. Who is more consistent in performance?

15. Refer Pg.No. 316

Exercise 8.2

Sums no.: 9.