



MATHS

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MEASURES OF DISPERSION

Solved Problems

1. Find the mean from the mean of the following discrete data 6,7, 10,1213,4,12 ,16



2. Find the mean diviation from the median of

discreta data

3,6,10, 4, 9, 10



3. Find the mean about the mean for the following data .

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4. Find the mean deviation from the median

for the following data

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5. Find the mean deviation about the mean for

the following data

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6. Find the mean deviation about the mean for

the following data

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- 8. Find the variance and standard deviation of
- the following data
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9. Calculate the variance and standard deviation of the following continuous frequency distribution .

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10. Students of two sections A and B of a class

show the following performance in a test

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Which section of students has greater

variability in performance?

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11. Lives of two models or refrigerators A and B

obtained in a survey are given below :

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purchase?



12. Find the mean deviation from the mean of the following data using step deviation method

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13. The following table gives the daily wages of workers in a factory . Compute the standard deviation and the co - effcient of the wages of the workers

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14. An analysis or monthly wages paid to the workers of two firms A and B belonging to the same industry gives the following data .

(i) Which firm A or B , has greater variability in industrial wages ?

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(i) Which firm A or B , has greater variability in

industrial wages ?



15. The variance of 20 observations in 5. If

each of the observations is multplied ny 2,

find the variance of the resulting observations





16. If each of the obsservations x_1, x_2, \ldots, x_n is o increased by k , is a positive or negative number , then show that the variance ramains unchanged .





1. Find the mean deviation about the mean for

the following data

38,70,48,40,42,55,63,46,54,44



2. Find the mean deviation about the mean for

the following data

3,6,10,4,9,10

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3. Find the mean deviation about the median

for the following data

13,17,16,11,13,10,16,11,18,12,17

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4. Find the mean deviation about the median

for the following data

4,6,9,3,10,13,2

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5. Find the variance for the discrete data given

below.

(i) 6,7,10,12,13,4,8,12

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6. Find the variance for the discrete data given

below.

350,361,370,373,376,379,385,394,395

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7. The co - efficient of variation of two distributions are 60 and 70 and their standard deviations are 21 and 16 respectively . Find their arithmetic means .



8. The mean of 5 observations is 4.4 Their variance is 8.24 . If three of the observations are 1,2 and 6 . Find the other two observations



9. The arithmetic mean and standard deviation of a set of 9 items are 43 and 5 respectively, If an item of value 63 is added to that set , find the new mean and standard deviation of 10 item set given

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