# © ${ }^{\text {T doubtnut }}$ 

India's Number 1 Education App

## 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

- Watch Video Solution

3. Find the mean about the mean for the following data.
width="80\%">

## D View Text Solution

4. Find the mean deviation from the median
for the following data
(\#\#VIK_MAT_IIA_QB_C08_SLV_004_Q01.png"
width="80\%">

D View Text Solution
5. Find the mean deviation about the mean for the following data

## (\#\#VIK_MAT_IIA_QB_CO8_SLV_005_Q01.png"

width="80\%">

## D View Text Solution

6. Find the mean deviation about the mean for
the following data
(\#\#VIK_MAT_IIA_QB_C08_SLV_007_Q01.png"
width="80\%">
7. Find the variance and standard deviation of the following data $5,12,3,18,6,8,2,10$.

## - Watch Video Solution

8. Find the variance and standard deviation of the following data (\#\#VIK_MAT_IIA_QB_CO8_SLV_009_Q01.png" width="80\%">
9. Calculate the variance and standard deviation of the following continuous frequency distribution.
(\#\#VIK_MAT_IIA_QB_CO8_SLV_010_Q01.png"
width="80\%">

## D View Text Solution

10. Students of two sections $A$ and $B$ of a class
show the following performance in a test
width="80\%">

Which section of students has greater variability in performance?

## D View Text Solution

11. Lives of two models or refrigerators $A$ and $B$ obtained in a survey are given below :
(\#\#VIK_MAT_IIA_QB_C08_SLV_012_Q01.png"
width="80\%">

Which refrigerator model you suggest to purchase?

## D View Text Solution

12. Find the mean deviation from the mean of
the following data using step deviation method
(\#\#VIK_MAT_IIA_QB_CO8_SLV_013_Q01.png"
width="80\%">

D View Text Solution
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
(\#\#VIK_MAT_IIA_QB_CO8_SLV_014_Q01.png"
width="80\%">

## - View Text Solution

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 ?

## (\#\#VIK_MAT_IIA_QB_C08_SLV_015_Q01.png"

width="80\%">
(i) Which firm $A$ or $B$, has greater variability in industrial wages ?

## D View Text Solution

15. The variance of 20 observations in 5 . If each of the observations is multplied ny 2 , find the variance of the resulting observations

## Watch Video Solution

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 .

## D View Text Solution

1. Find the mean deviation about the mean for the following data $38,70,48,40,42,55,63,46,54,44$

## D Watch Video Solution

2. Find the mean deviation about the mean for
the following data

3,6,10,4,9,10
3. Find the mean deviation about the median for the following data

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

- Watch Video Solution

4. Find the mean deviation about the median for the following data 4,6,9,3,10,13,2
5. Find the variance for the discrete data given below.
(i) $6,7,10,12,13,4,8,12$

## D Watch Video Solution

6. Find the variance for the discrete data given
below.

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

D View Text Solution
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 .

## D View Text Solution

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

- Watch Video Solution

