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Module: 2

Subject: Statistics Pre-Learning

Section: B1

Roll No: 86

Submission

Course: MCA  
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measures of Dispersion - Range, Quartile Deviation, mean Deviation and Standard deviation.

\* measures of Dispersion measures the scattering of the data. It tells us how the values are distributed in the data set.

\* Difference b/w the largest and smallest values in a distribution

$$\text{Range} = L - S$$

\* When inter quartile Range is divide by 2 it becomes quartile deviation  $\frac{Q_3 - Q_1}{2}$

\* Sum of absolute deviation from an avg divide by the no. of items it is also known as avg deviations.

\* Positive square root of the sum of squares of deviation of various from there Arithmetic mean divide by the sample size it is denoted by ' $\sigma$ '

Reference:

Richard I Levin, David S Rubin - Statistics for management, seventh edition, PHI-1994 - Page No. 111 - 132