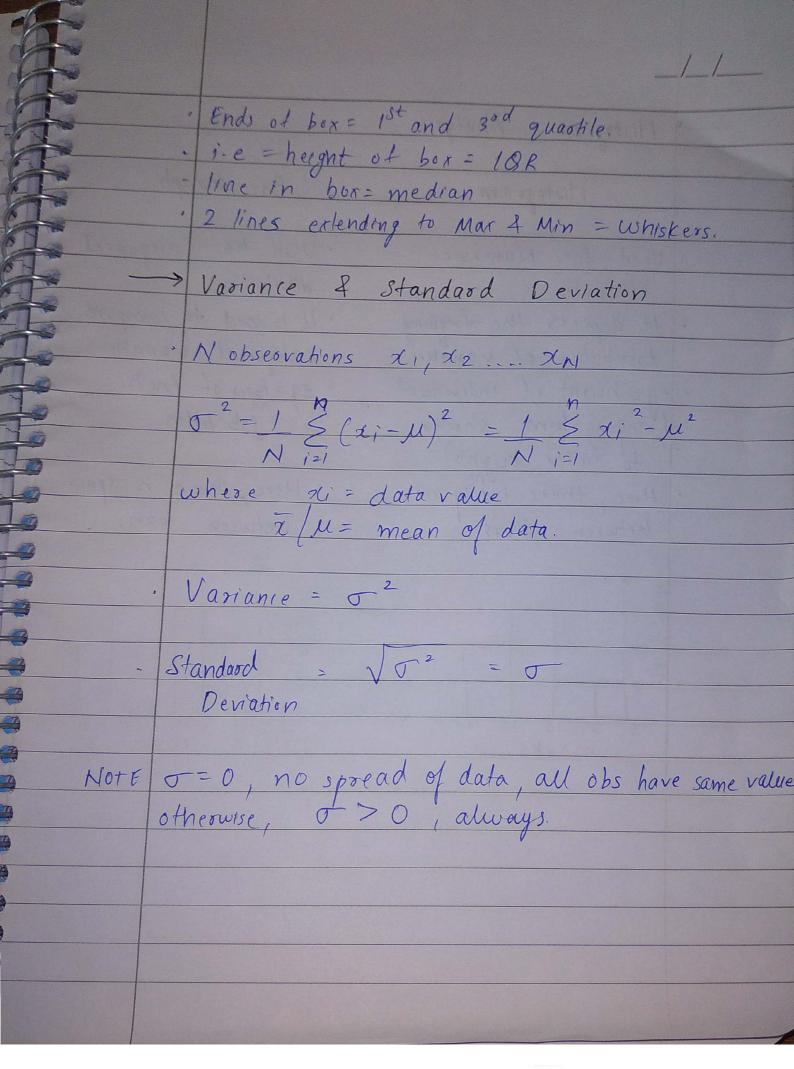
| | Ch-6 CI 11 1 0 0 1 n 0 0 1 |
|----|---|
| no | Ch-5 Statistical Representa of Data |
| | Statistical Description of Data. Descriptive Statistics is a branch of statistics that involves our |
| | that involves our statistics is a branch of stansing |
| | indiciones summorizing, organizing 4 |
| - | Presenting data meaningfully and concisely. Central Tendency |
| | = Mean, Mode, Medran, Midrange |
| | |
| 2. | Dispersion |
| | = range, variance, standard deviation. |
| 2 | |
| 5. | Shape of distribution. |
| | = skewness, Kuotosis. |
| 1, | D: L'I Is AA |
| H, | Distributive Measure. |
| | = sum(), count(), mar() min() |
| | parti data into subsets & merge values obtained tox each subset. |
| | You cuch subject. |
| 5. | Algebraic Measures |
| | Algebraic Measures = average () or mean() |
| | computed as sum() / count() |
| | |
| 6- | Holistic Measure |
| | = median() |
| | computed on entire dataset as a whole |
| | C C |
| | |

| | Mean, Medran, Mode |
|--|--|
| • | Empirical Relation |
| 9 | mean-mode = 3 x (mean-median) |
| \rightarrow | Example 1 |
| | |
| > | Suppose you have scores of 20 students in exam. 85, 90, 75, 92, 88, 79, 83, 95, 87, 91, |
| | 78,86,89,94,82,80,84,93,88,81. |
| | |
| | Mean. |
| | add all values / no. of values 1770/20 1720/20 88.5 86 |
| 7 | $\frac{1110 20}{65}$ $\frac{1720 20}{65}$ |
| - | 88.5 |
| 2 | AA adva. |
| Control of the contro | Median 1 Pond 1/11 |
| | axorange in ascending 4 find middle value 86,5 |
| - | |
| (3) | Mode |
| | Mode Identify value occurring most frequently. |
| 4 | 88 |
| | 75+95 - 56 |
| (H) | Range, Midrange = avg 2 diff = highest value - lowest value 95-75 = 20 |
| = 0 | diff = highest value - lowest value |
| 2 | 95 - 75 = 20 |
| | Maduana Dispersion by Bosplot Andys |
| 3 | Vaniance 27/ |
| A . | $(85-88.5)^2+(90-88.5)^2+\ldots+(81-84.5)^2$ 20 |
| = | 33.25 30.7 |
| (O) St | tandard deviation = \[Variance = \sqrt{33.25} = 5.77 = 5.5' |
| | |

| → ① | Measuring Dispersion of Data Dispersion Variance Degree to which numerical data tend to |
|----------|---|
| | Degree to which numerical data tend to spread. |
| 2 | Range ditt = man rature() |
| | diff = max value () - mm value () |
| (3) | Quartile $1^{St} Q_1 = 25^{th}$ percentile $3^{sd} Q_3 = 75^{th}$ 11 |
| (1) | 10 R= Interguartile Roma |
| | 10 R= Interguartile Range. 03-01 |
| (5) | Fire-number summary |
| | Fire-number summary min, Q1, M, Q3, max |
| | Outlier |
| | value higher or lower than 1.5 x 1QR |
| <i>→</i> | Measuring Dispersion by Boxplot Analysis. Way of visualizing distribution. Box plot = works on 5-number summary. Data is represented with a box, |
| | Box plot = works on 5-number summary. |
| • | Data is represented with a box, |
| | |



| | | 1 |
|--|--|---------|
| | // | 0 |
| | terrorial I successed I successed the succes | 1 |
| Histogram Analysis | | 1/ |
| | | 1 |
| Histogram | Bar Graph | 5/ |
| | | 37 |
| Used for Numeric | · Used too Categorial | 1 |
| attributes: | attributes. | 1 |
| distribution of variables. | · It is used to compare | 8 |
| distribution of variables. | categorial variables. | |
| eg = height of individual | · eg=types of fourts | 1 |
| (ranging from shooter | = Job Hilles. | 6 |
| to taller height) | TO IN THE STATE OF | 8 |
| Here, there is no pare | · Here there is space | A |
| between bars. | between bars. | 6 |
| 2 and and a second a second and | · · | 6 |
| 5 3 | 5 3 | - |
| | 8 2 1 | - |
| | 2 1 | |
| 0 5 10 15 28 | O class class class class | |
| marks. | 5 6 7 8 | - |
| | | |
| | | |
| | | - |
| | | - |
| | | -6- |
| | | (6- |
| | | (C) |
| | Scanned with OKENS | Scanner |