Part 1

Preview from Notesale.co.uk

Respectively from Notesale.co.uk

Preview from Notesale.co.uk

Respectively from Notesale.co.uk

Respectively from Notesale.co.uk

Preview from Notesale.co.uk

Preview from Notesale.co.uk

Respectively from Notesale.co.uk

Why is it important to understand Variation? A wife a supe of the center by itself can be misleading

- **Example:**

Two nations with the same median family income are very different if one has extremes of wealth and poverty and the other has little variation among families (see the following table).

Range (cont.)

Ignoring the outliester of in the previous data set gives data on previous page 9 of 35 previous page 9 of 35

Range = 30 - 25 = 5

This shows that the range is very sensitive to extreme values; therefore not as useful as other measures of variation.

Preview from Notesal Preview from 22 of 35 Preview from 22 of 35 Preview from 22 of 35 Data Prage 22 of 35 (25 data values)

Data Value (x)	Data Value Squared (x^2)
2	4
1	1
CO.	1
1	1
1	1
1	1
1	1
4	16
1	1
2	4
2	4
1	1
2	4
3	9
3	9
2	4
3	9
1	1
3	9
1	1
3	9
3	9
2	
2	4
2	4

TOTALS:

47

109

Calculator Example

- •To compute standarh deviation:

 1) Freder the lige of data values

 - 2) Select **2nd STAT (LIST)** and arrow right to **MATH** option 7:stdDev(
 - 3) Input the data by choosing the desired list

Previous example: s = 15.0 *millibecquerels*