

USING TECHNOLOGY TO DETERMINE DESCRIPTIVE STATISTICS

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OBJECTIVES

- We shall use technology to find some descriptive statistics of ungrouped data. The descriptive statistics include:
 - Mean or Sample Mean, \bar{x} or **x-bar**
 - Population Mean, μ
 - Median, \tilde{x}
 - Mode, **x-hat**
 - Variance or Sample Variance, s^2
 - Population Variance, σ^2
 - Standard Deviation or Sample Standard Deviation, **s**
 - Population Standard Deviation, σ
 - Mean Absolute Deviation, **MAD**
 - Coefficient of Variation or Coefficient of Variance, **CV**
 - Range

WHAT TECHNOLOGY SHALL WE USE?

■ Windows-based Technology:

- Microsoft Excel
- Microsoft Mathematics 4.0
- The Calculator on your computer machine
- Pearson Statcrunch
- IBM SPSS

■ Web-based Technology:

- The links to the calculators on my website:

www.samdomforpeace.com

EXAMPLE 1

- Find the descriptive statistics of:
- 105, 102, 95, 113, 112, 103, 97, 110, 101, 115, 116, 110
- Type your answer as an integer; or as a decimal rounded to two decimal places

EXAMPLE 2

- Consider the data below:

231	251	220	227	231
285	169	206	155	270
312	256	296	285	324

- Determine the descriptive statistics.
- Type your answer as an integer or a decimal rounded to one decimal place

EXAMPLE 3

- Consider the data below:

29.18	22.29	26.51	27.75	8.42
28.44	7.63	26.68	7.59	25.11
22.41	15.08	13.21	18.46	28.51
16.91	17.92	13.47	21.67	5.62

- Determine the descriptive statistics.
- Type your answer as an integer or a decimal rounded to three decimal places