Name _____ Date _____

Algebra 2 Unit 12: Statistics Notes

Variability and Sampling

Data is everywhere. In the news and in papers, at work and in our personal lives, it seems we are constantly quantifying and summarizing data. One of the most important concepts in statistics is variability. Variability is simply the property of measurements being different. The goals of statistics are designed to explain this variability. There are many types of variability. It is good to understand these variations to analyze and make decisions that properly take them into account.

Example 1 The following types of variability were observed in a study and, in the study, given an example from the study itself.

(a) **Observational Unit Measurement Variability:** Variability that is unintended due to errors in measuring characteristics and timing process. Example: In data collection, two different people read the measurement.

2 students measure time for a ball to roll down a ramp
→ different reaction times

(b) **Natural Variability or Between-Individual Variability:** Variability that occurs due to the fact that characteristics of populations are simply different.

2 people work out same amount of time
→ different people lose different amounts of weight

(c) **Replicate Variability:** This type of variability is the result of some additional factor. In this case, two groups were assigned one population or sample to test in order to assess treatment groups and there was some variability between the groups.

2 groups taking a test, one group allowed to study 8 hours, other group only 4 hours → different scores

(d) **Sample Variability:** This is the type of variability that occurs when we take multiple samples. Due to population conditions. When sampling, we will be different than the sample mean of the population or sample.

multiple samples of people surveyed to determine political candidate preference

Remember, through all of our work in this unit, we are really trying to explain the variability of data without either a population or a sample and that by determination of the variability can be attributed to one of the factors shown in the examples of the notes.

Emathinstruction Algebra Unit 2 Lesson 7

Clifford Lane

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