

Algebra 2 Unit 12: Statistics Notes

Variability and Sampling

Data is everywhere. It's in our newspapers, it's in our science classes, it shows up in economics, statistics and anywhere else that variability occurs. Variability is simply the property of outcomes being different. The tools of statistics are designed to explain this variability. There are many types of variability. It is good to understand these sources in order to understand the results that we obtain analyzing.

Example 1 The following types of variability can change outcomes of a data set. For each, give an example that may hold.

(1) Observational or Measurement Variability: Variability that is introduced due to either the measuring instruments and being process (weight or distance) or human error (different people read the measurements).

2 student's measure time for a ball to roll down a ramp
→ different reaction times

(2) Natural Variability or Inherent Individual Variability: Variability that occurs due to the fact that members of populations are simply different.

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

(3) Treatment Variability: This type of variability is the result of some additional factor. It can arise because we have assigned our populations or samples to two or more treatment groups and these affect the variability between the groups.

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

(4) Sample Variability: This is the type of variability that occurs when we take multiple samples from a population randomly. There is no reason why the samples will be different due to the random nature of the samples or errors.

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 then bring this to determination of the variability due to attributed to one of the factors above or the combination of the others.

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