Kinds of Data

Quantitative: expressed numerically.
Qualitative: expressed in words or pictures.

Descriptive Statistics

Used to transform a set of numbers into indices that describe or characterize the data.
Also known as “summary statistics.”
Used to summarize, organize and reduce large groups of numbers

Measures of Central Tendency

Typical or average score.

* Mean
* Median
* Mode

The Mean

The arithmetical average of all scores.
Symbolize as $\bar{X}$ or $M$

The Median

The half-way point in the distribution of scores. 50% of the scores are above and 50% of the scores are below the mean.

The Mode

The most commonly occurring score. There may be more than one.

Measures of Variability

Indicators of the spread of the distribution of scores.

Variability

How much on the average the scores differ from the mean.