*Learning Targets*

After completing a detailed outline students will be able to:

* Identify variables in a statistical study
* Distinguish between quantitative and qualitative variables
* Identify populations and samples
* Distinguish between parameters and statistics
* Determine the level of measurement
* Compare descriptive and inferential statistics

**Directions:** Complete an outline of section 1.1 “What is Statistics?” following the structure shown below. Make sure you write the outline in your own words, DO NOT COPY the text exactly! That’s called plagiarism.

Central Idea: What is Statistics?

Key Idea: Statistics

Specifics: Definitions of **bolded** and/or *italicized* terms (simple random sample)

Original Examples/Explanations: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.

Key Idea: Individuals/variable

Specifics: Definitions of **bolded** and/or *italicized* terms (random-number table)

Original Example**s**/Explanation**s**: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.

Key Idea: Quantitative Variable/Qualitative Variable

Specifics: Definitions of **bolded** and/or *italicized* terms (random-number table)

Original Example**s**/Explanation**s**: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.

Key Idea: Population Data/ Sample Date

Specifics: Definitions of **bolded** and/or *italicized* terms (random-number table)

Original Example**s**/Explanation**s**: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.

Key Idea: Parameter/Statistic

Specifics: Definitions of **bolded** and/or *italicized* terms (random-number table)

Original Example**s**/Explanation**s**: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.

Key Idea: Levels of Measurement/ How to Determine the Level Of

Measurement

Specifics: Definitions of **bolded** and/or *italicized* terms (simulation, sampling with replacement)

Original Example**s**/Explanation**s**: Create your own examples/explanations about the information in the text or new vocabulary terms. Be sure to include visuals along with your writing. DO NOT COPY THE EXAMPLES FROM THE TEXTBOOK.