*Learning Targets*

After completing a detailed outline students will be able to:

* Explain the importance of random samples.
* Construct a simple random sample using random numbers
* Simulate a random process.
* Describe the differences between stratified sampling, cluster sampling, systematic sampling, multistage sampling, and convenience sampling.

**Directions:** Complete an outline of section 1.2 “Random Samples” 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: Random Samples

Key Idea: “Simple” Random Samples

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: How to Use a Random-Number Table

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: Simulations

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.

Key Idea: Other Sampling Techniques

Specifics: Definitions of **bolded** and/or *italicized* terms (stratified, systematic cluster, multistage, convenience)

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: Critical Thinking

Specifics: Definitions of **bolded** and/or *italicized* terms (sampling frame, undercoverage, sampling error, nonsampling error)

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.