

Chapter 4 Practice Test

Name: Key

IMPORTANT: When you have completed your study guide, check your answers on Haiku in a **different colored** writing utensil. You **MUST** do the Haiku check to get full credit. Give yourself a check for a correct answer. Correct your mistakes for what you got wrong.

Section I: Multiple Choice

1. When we take a census, we attempt to collect data from

- a) A stratified random sample.
- b) Every individual chosen in a simple random sample.
- c) Every individual in the population.
- d) A voluntary response sample.
- e) A Convenience sample.

2. A study of treatments for angina (pain due to low blood supply to the heart) compared bypass surgery, angioplasty, and use of drugs. The study looked at the medical records of thousands of angina patients whose doctors had chosen one of these treatments. It found that the average survival time of patients given drugs was the highest. What do you conclude?

- a) This study proves that drugs prolong life and should be the treatment of choice.
- b) We can conclude that drugs prolong life because the study was a comparative experiment.
- c) We can't conclude that drugs prolong life because the patients were volunteers.
- d) We can't conclude that drugs prolong life because the groups might differ in ways besides the treatment.
- e) We can't conclude that drugs prolong life because no placebo was used.

3. Ruby wanted to estimate the average amount of time that students at her school spend on Facebook each day. She gets an alphabetical roster of students in the school from the registrar's office and numbers the students from 1 to 1137. Then Ruby uses a random number generator to pick 30 distinct labels from 1 to 1137. She surveys those 30 students about their Facebook use. Ruby's sample is a simple random sample because

- a) It was selected using a chance process.
- b) It gave every individual the same chance to be selected.
- c) It gave every possible sample of size 30 an equal chance to be selected.
- d) It doesn't involve strata or clusters.
- e) It is guaranteed to be representative of the population.

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M Carnoy



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