

On my honor, as a University of Colorado at Boulder student, I have neither given nor received unauthorized assistance on this work.

SIGNATURE: _____

MULTIPLE CHOICE (1 point each). Choose the one alternative that best completes the statement or answers the question.

- 1) Amount of fat (in grams) in cookies. Identify the level of measurement.
A) Nominal B) Ordinal C) Interval D) Ratio

- 2) Nationalities of survey respondents. Identify the level of measurement.
A) Nominal B) Ordinal C) Ratio D) Interval

- 3) A researcher obtained a random sample of 100 smokers and a random sample of 100 nonsmokers. After interviewing all 200 participants in the study, the researcher compared the rate of depression among the smokers with the rate of depression among nonsmokers. Would this be considered an experiment or an observational study?
A) experiment B) observational study

- 4) Thirty-five math majors, 66 music majors and 26 history majors are randomly selected from 225 math majors, 487 music majors and 416 history majors at the state university. What sampling technique is used?
A) stratified
B) cluster
C) convenience
D) simple random
E) systematic

- 5) A statistics student interviews everyone in his apartment building to determine how many people in his city owns a cell phone. What sampling technique is used?
A) convenience
B) simple random
C) systematic
D) stratified
E) cluster

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Determine whether the given value is a statistic or a parameter. and explain your reasoning.

6) After inspecting all of 55,000 kg of meat stored at the Wurst Sausage Company, it was found that 45,000 kg of the meat was spoiled.

7) A manufacturer of cellular phones has decided that an assembly line is operating satisfactorily if less than 6% of the phones manufactured per day are defective. To check the quality of a day's production, the company decides to randomly sample 30 phones from a day's production and test for defects. Be as specific as possible when answering the following questions.

a.) What is the population of the study?

b.) Identify the variable.

c.) Is the variable quantitative or qualitative?

Answer Key

Testname: 2510-QUIZ1-FS17

- 1) D
- 2) A
- 3) B
- 4) A
- 5) A
- 6) Parameter
- 7) a.) The cellular phones that were manufactured that day.

b.) The number (or percentage) of defective phones in the random sample.

c.) Quantitative.