

Name \_\_\_\_\_

**This quiz has 10 questions for 10 points. Mark your choice on the space provided and circle it clearly.**

- 1) Planning the methods for data collection to study the effects of Ibuprofen on kids would be classified as which aspect of statistics: design, inference or description? 1) \_\_\_\_\_  
A) Description B) Design C) Inference

**The owners of a manufacturing company conducted a trial test to determine whether its users preferred the new version of a product to the current one sold in the market. Users who were willing to participate were given the two versions in random order and were asked to select which one they preferred without knowing the version. Of the 500 participating users, 87% chose the new version. Based on these results, the manufacturer determined that a majority of their users preferred the new version and therefore switched their product**

- 2) Predicting the preference of all of the users based on the trial test results refers to which aspect of statistics? 2) \_\_\_\_\_  
A) Inference  
B) Investigation  
C) None of these  
D) Design  
E) Description

- 3) Stating that 87% of the trial testers preferred the new version is an example of which type of statistics? 3) \_\_\_\_\_  
A) Design  
B) Inference  
C) None of these  
D) Investigation  
E) Description

**Provide an appropriate response.**

- 4) The median annual wage for heavy and tractor-trailer truck drivers was \$47,130 in May 2020. Is this value a parameter or a statistic? 4) \_\_\_\_\_  
A) parameter B) statistic

**Determine whether the summary measure is better described as a parameter or a statistic.**

- 5) The average age of the 10256 students who were selected at random from all U.S. colleges to try a new coffee brand. 5) \_\_\_\_\_  
A) Parameter B) Statistic

**Answer true or false.**

- 6) To estimate the percentage of defective items a machine is producing, a quality control analyst inspects the first 250 items produced in a week. This technique produces a random sample. 6) \_\_\_\_\_  
A) False B) True

**Provide an appropriate response.**

- 7) To estimate the percentage of defective items a machine is producing, a quality control analyst inspects the first 250 items produced in a week. Estimate the corresponding margin of error. 7) \_\_\_\_\_
- A) 0.4%
  - B) 6.32%
  - C) cannot be determined from the information given
  - D) 0.04%
  - E) 0.63%

**Select the most appropriate answer.**

- 8) A survey asks "would you like to see more or less government spending on the pandemic?" Of the 1843 respondents, 984 responded "more" or "much more". The population of interest consists of 8) \_\_\_\_\_
- A) the 1843 respondents
  - B) the proportion of American adults who would respond "more" or "much more"
  - C) all American adults
  - D) the proportion of respondents who responded "more" or "much more"
  - E) the 984 respondents who responded "more" or "much more"
- 9) A survey asks "would you like to see more or less government spending on the pandemic?" Of the 1843 respondents, 984 responded "more" or "much more". The sample consists of 9) \_\_\_\_\_
- A) the 984 respondents who responded "more" or "much more"
  - B) all American adults
  - C) the proportion of American adults estimated to respond "more" or "much more"
  - D) the proportion of respondents who responded "more" or "much more"
  - E) the 1843 respondents

**Provide an appropriate response.**

- 10) A researcher predicted from past figures that 32% of taxi drivers have their lunch in the car. Which type of statistics does this statement reflect: inferential statistics or descriptive statistics? 10) \_\_\_\_\_
- A) Inferential statistics
  - B) Descriptive statistics

## Answer Key

Testname: QUIZ 1-11

- 1) B
- 2) A
- 3) E
- 4) A
- 5) B
- 6) A
- 7) B
- 8) C
- 9) E
- 10) A