

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.****Solve the problem.**

- 1) For the study described below, identify the population parameter. 1) \_\_\_\_\_

1500 American women working for large companies were polled to determine the percentage that felt that women were under represented in management positions in their company.

- A) The percentage of women in the sample who feel that women are under represented in management positions in their company.
- B) All American women working for large companies
- C) The percentage of all American women who feel that women are under represented in management positions in large companies.
- D) The percentage of American women working for large companies who feel that women are under represented in management positions in their company.

- 2) For the study described below, identify the sample. 2) \_\_\_\_\_

A bank manager wants to know the average amount of time customers of his bank have to wait in line. 300 customers were polled and asked their average wait time at the bank. 27 of the 300 were extremely dissatisfied with the amount of time they had had to wait in line in recent months.

- A) The 27 people who were dissatisfied.
- B) The customers who were waiting in line at the bank the day of the poll
- C) All customers of the bank
- D) The 300 customers polled

- 3) For the study described below, identify the sample statistic. 3) \_\_\_\_\_

A manufacturer of light bulbs wants to determine the average lifetime of its 75-watt light bulbs. Among 120 randomly selected 75-watt light bulbs, the average lifetime was 1007 hours.

- A) The average lifetime of the 120 randomly selected 75-watt light bulbs
- B) The 120 randomly selected 75-watt light bulbs
- C) 120, the number of light bulbs in the sample
- D) The average lifetime of all 75-watt light bulbs manufactured by the company

**Identify which of these types of sampling is used: simple random, stratified, systematic, or convenience.**

- 4) 49 students are selected at random from the Sophomore class, 39 from the Junior class, and 48 from the Senior classes. 4) \_\_\_\_\_

- A) Simple random
- B) Stratified
- C) Convenience
- D) Systematic

- 5) A pollster uses a computer to generate 500 random numbers, then interviews the voters corresponding to those numbers. 5) \_\_\_\_\_

- A) Systematic
- B) Simple random
- C) Stratified
- D) Convenience

- 6) A researcher interviews 19 work colleagues who work in his building. 6) \_\_\_\_\_

- A) Convenience
- B) Simple random
- C) Stratified
- D) Systematic

In order to answer the given question, which of the following types of study would be the most appropriate: an experiment without blinding, an experiment with single blinding, an experiment with double blinding, an observational study, or a case-control study?

- 7) How do lawyers' salaries compare to doctors' salaries? 7) \_\_\_\_\_
- A) Case-control study
  - B) Experiment with double blinding
  - C) Experiment without blinding
  - D) Experiment with single blinding
  - E) Observational study
- 8) Does smoking elevate blood pressure? 8) \_\_\_\_\_
- A) Experiment without blinding
  - B) Case-control study
  - C) Observational study
  - D) Experiment with single blinding
  - E) Experiment with double blinding
- 9) In which of these four soil types will the plants grow fastest? 9) \_\_\_\_\_
- A) Case-control study
  - B) Experiment without blinding
  - C) Experiment with double blinding
  - D) Experiment with single blinding
  - E) Observational study
- 10) Does the new medication relieve depression? 10) \_\_\_\_\_
- A) Experiment with double blinding
  - B) Observational study
  - C) Case-control study
  - D) Experiment without blinding
  - E) Experiment with single blinding

## Answer Key

Testname: QUIZ

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