

Statistical & Non Statistical Questions

Name: _____

Date: _____

1. Denisa wants to collect data about the popularity of a television news talk show.

Which of these is *most* effective to collect the data?

- A. survey of television executives
- B. survey of television viewers
- C. survey of local television station employees
- D. survey of letters to the editor about TV news talk shows

2. Read the questions.

- a. How old is Keira?
- b. How old is Keira's grandmother?
- c. How old are the people on Keira's block?
- d. How old are the people in Keira's school?

Which of the above are statistical questions?

- A. a only
- B. a and b only
- C. c only
- D. c and d only

3. Read the questions.

- a. What is the wheelbase of a Camaro?
- b. What is the wheelbase of various mini-van models?
- c. What is the wheelbase of various hybrid models?
- d. What is the wheelbase of a Volt?

Which of the above are statistical questions?

- A. a only
- B. b and c only
- C. b, c and d only
- D. a, b and d only

4. Read the questions.

- a. Which cowboy hat sizes were sold last month?
- b. Which baseball hat size is sold most often?
- c. Which size of hard hat is bought most often by lumberjacks?
- d. What is Mr. James' hat size?

Which of these are statistical questions?

- A. a only
- B. b only
- C. a and c only
- D. a, b and c only

5. Which is a statistical question?

- A. How long is a lane in an Olympic-size swimming pool?
- B. What is the fastest recorded time in the Women's 100 meter butterfly?
- C. How many laps, on average, do Olympic competitors swim during practice each week?
- D. How many gold medals were won by U.S. Olympians in Men's Freestyle Swimming?

6. Which is a statistical question?

- A. How much money does a 28 year old need to save each week to have \$1,000,000 by the age of 45?
- B. What is average starting salary of a chemical engineer in the United States?
- C. How many 28 year olds deposit money into a savings account each week?
- D. What was the amount that Kate spent on rent last month?

7. One university recruits highly motivated students by publishing the job placement record for graduates of the school.

Which of these is a reliable data collection method?

- A. Follow-up study of 2500 graduates from a number of departments
- B. Follow-up study of 10 graduates with Art History degrees
- C. Follow-up study of a graduate who was also a championship NCAA basketball player
- D. Follow-up study of 100 graduates with Computer Science degrees

8. Keitaro wants to collect data about which horse should be favored to win a horse race.

Which of these is *most* effective to collect the data?

- A. observe the horse at rest
- B. observe the horse during multiple horse races
- C. observe the horse during practice sessions
- D. observe the horse while at the veterinarian

9. Read the questions.

- a. How many tractors are owned per square mile in rural Great Britain?
- b. Which model tractor required repairs most often?
- c. How many tractors does Mrs. Brinson own?
- d. Which model tractor is bought most often in Chile?

Which of these are statistical questions?

- A. d only
- B. b and c only
- C. b, c and d only
- D. a, b and d only