

## CA Grade 6 Standard 6.SDAP.2.4

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### MULTIPLE CHOICE

1. Which of the following does *not* explain why data gathered from a survey that people have to mail in might be biased?
  - A. Some people would not take the time to complete the survey.
  - B. Some people would not want to pay to mail the survey back.
  - C. Only people interested in the topic will send it back.
  - D. The surveys were mailed to a random sample.
  
2. Stuart took a survey to find out the favorite sport of his sixth grade class. Which of the following would lead to a biased sample?
  - A. surveying half the girls in the class and half of the boys
  - B. surveying only the baseball team
  - C. surveying students chosen randomly in the cafeteria
  - D. surveying every fifth student in an alphabetical list
  
3. A local newspaper prints a graph showing their city is the favorite city in the state to raise a family. If the sample set was selected from a random group of readers, which of the following explanations *best* describes the bias in the data?
  - A. It was a random sample of readers.
  - B. A large majority of the readers live in the selected city.
  - C. The graph was a bar graph.
  - D. The graph was shown on the front page of the paper.
  
4. Zac surveyed 20 students to determine their favorite subject in school. Which of the following data would suggest a sampling error?
  - A. Math-17, English-1, Science-2
  - B. Math-6, English-9, Science-2, History-3
  - C. Math-3, English-7, Science-5, History-5
  - D. Math-2, English-6, Science-2, History-10
  
5. Which of the following would *most likely* lead to a sampling error?
  - A. random sample
  - B. sample of names drawn from a hat
  - C. sample of the first people seen
  - D. sample of every 10th student from an alphabetical list

6. Michael surveyed 20 tennis players. He asked the question, “Do you think playing tennis is more fun than playing golf?” Do you think this sampling method will help Michael get unbiased survey results? Explain.
- A. Yes, the sample only contains people that play tennis.
  - B. Yes, the sample only contains people that play golf.
  - C. No, the sample only contains people that play tennis.
  - D. No, the sample only contains people that play golf.
7. The driver’s education teachers are conducting a survey to find out how many hours students should spend driving with their parents before they get their license. Which sampling method is *not* biased?
- A. a random survey of 100 teachers
  - B. a random survey of 100 female students
  - C. a random survey of 100 students
  - D. a random survey of 100 male students
8. Daniel wants to find out if more students pack their lunch or buy a school lunch. Which sample would produce the *most* biased survey results?
- A. 20 students in the lunch line
  - B. 20 students in gym class
  - C. the first 20 students who enter the school
  - D. 20 students in math class
9. Rosa is going to survey her classmates to find out if more students walk to school or ride the bus to school. Which sampling method is biased?
- A. surveying 25 students chosen randomly on the bus
  - B. surveying 25 students chosen randomly in the library
  - C. surveying 25 students chosen randomly in the cafeteria
  - D. surveying 25 students chosen randomly at an assembly
10. Ling surveyed 100 people who own a car. She asked the question, “What is the best type of truck to purchase?” Why might the results of Ling’s survey be biased?
- A. The sample only contains people who own trucks.
  - B. The sample only contains people that own vans.
  - C. The sample only contains people who own cars.
  - D. The question is biased.