

A.S.3: Determine when collected data or display of data may be biased.

1. 060803ia, P.I. A.S.3

A school wants to add a coed soccer program. To determine student interest in the program, a survey will be taken. In order to get an unbiased sample, which group should the school survey?

- [A] every member of the varsity football team
- [B] every member in Ms. Zimmer's drama classes
- [C] every third student entering the building
- [D] every student having a second-period French class

2. 010815b, P.I. A.S.3

Which method of collecting data would most likely result in an unbiased random sample?

- [A] placing a survey in a local newspaper to determine how people voted in the 2004 presidential election
- [B] selecting every third teenager leaving a movie theater to answer a survey about entertainment
- [C] surveying honor students taking Mathematics B to determine the average amount of time students in a school spend doing homework each night
- [D] selecting students by the last digit of their school ID number to participate in a survey about cafeteria food

3. 010923ia, P.I. A.S.3

A survey is being conducted to determine which types of television programs people watch. Which survey and location combination would likely contain the most bias?

- [A] surveying 10 people who work in a sporting goods store
- [B] randomly surveying 75 people during the day in a clothing store
- [C] surveying the first 25 people who enter a grocery store
- [D] randomly surveying 50 people during the day in a mall

4. 080910ia, P.I. A.S.3

Erica is conducting a survey about the proposed increase in the sports budget in the Hometown School District. Which survey method would likely contain the most bias?

- [A] Erica asks every third person leaving the Hometown Shopping Mall this weekend.
- [B] Erica asks every fifth person leaving Saturday's Hometown High School football game.
- [C] Erica asks every fifth student entering Hometown High School on Monday morning.
- [D] Erica asks every third person entering the Hometown Grocery Store.

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[1] C _____

[2] D _____

[3] A _____

[4] B _____