

Name: key Date: _____

1.) Which of these statements is the least biased?

- A. Agree or disagree: "There is a need for stricter gun laws in America."
- B. "People have said that there is a need for stricter laws on dangerous weapons. Do you agree?"
- C. "There are more murders by handguns than any other weapon. Do you think there is a need for stricter gun laws?"
- D. Agree or disagree: "We need to enforce strict gun laws to keep our cities safe."

2.) Andrea wanted to know how much time people spend on the Internet each day. She decided she would conduct a "convenience sample" to figure this out. Which of the following would be a "convenience sample" and why?

- A. Ask 20 people she sees during break. *The rest are simply not convenient. This is easy to do.*
- B. Ask 20 different people from five different randomly chosen classes.
- C. Pick 20 names from the school yearbook and ask those people.
- D. Choose 20 names randomly from a list of all enrolled students at the school.

3.) Nicole wanted to research how many students would attend the school dance. Which method listed below is an example of a random sample and why?

- A. Ask everyone who walks by during lunch.
- B. Ask her friends.
- C. Ask everyone in the dance club.
- D. Ask every 10th person on a list of all enrolled students. *Least Biased, and most random*

4.) For the school survey regarding favorite class, Joey only surveyed the basketball teams. Is this a valid sample of the entire school? Explain.

NO; Basketball team is not a good representation of the entire school.

5.) There was a recent poll of dentists in the town about their favorite toothpaste. Four out of the five dentists own part of a new toothpaste company. Is their opinion valuable? Explain.

NO; owners would be biased to choose their own toothpaste