

Statistics and Probability 2

Name: _____

Use the following information to answer question 37.

A school principal asks every student and staff member in the school if they like the idea of school uniforms. The school has 450 students and 30 staff members.

37. The survey above uses a i , and ii would have the most influence on the data.

The statement above is completed by the information in row

Row	i	ii
A.	sample	students
B.	sample	staff
<input checked="" type="radio"/> C.	population	students
D.	population	staff

14. Which of the following statements is **not** a valid reason for using a representative sample to conduct a survey?
- A. It is cheaper to use a sample.
 - B. There is too much error in a sample.
 - C. There is too much data in the complete population.
 - D. It is too time-consuming to use the complete population.

Use the following information to answer question 12.

Nina and Sarah observe that 6 of their 10 female classmates are shorter than 160 cm. Nina concludes that of the 410 students in their school, 246 are shorter than 160 cm. Sarah believes Nina's conclusion cannot be supported by her observation.

12. Which of the following statements **best** supports Sarah's belief?
- A. Nina's survey sample contains only female students.
 - B. Nina's probability calculation is incorrect.
 - C. Nina did not use a proper questionnaire.
 - D. Nina completed her survey too quickly.

Use the following information to answer question 21.

The organizer of a 16-team soccer tournament wants to conduct a survey to determine the minimum number of games each team in the tournament would like to play.

21. Which of the following samples would provide the most reliable results for her survey?
- A. One player each from half of the teams
 - B. Every fourth team that registers in the tournament
 - C. Three randomly selected players or coaches from each team
 - D. All of the players and coaches from one randomly selected team