

NAME :

## Bias in Samples

For each question below, write a B for biased or a U for unbiased. Then, explain your thinking with a few words.

- 1) You want to know which store shoppers at the mall visit the most. You ask every 10<sup>th</sup> person as they enter the mall which store they will visit.
- 2) A hip-hop radio station wants to know what type of music is the most popular. They ask their listeners to call in and select their favorite type of music.
- 3) You want to know which topic 7<sup>th</sup> graders like best in science. You enter all the names in a random name generator and have it choose every 6<sup>th</sup> student.
- 4) Your teacher is selecting students to help set up for a school dance. Only 5 students are needed to help. She puts everyone's name in a hat and selects 5 names without looking.
- 5) You want to know how many students in our school have broken a bone. You survey the members of the football team.
- 6) You randomly chose 50 books from the school library to find the average length of each book.
- 7) You ask 50 people in your local grocery store which grocery store is their favorite.
- 8) You want to know how many of the 750 students in the school have a sibling. You ask every 50<sup>th</sup> student to enter the building.
- 9) You want to find out how many students in the school must finish their homework before they can watch TV or play video games. You survey all the students in the cafeteria during your lunch period.
- 10) A bank casually selects customers throughout the day to ask them if they are pleased with the service they receive.