Name:	

11.4 Random Samples and Surveys worksheet

State whether or not the sample is random. If it is not random, explain why.

1.) You survey customers at a mall. You want to know which stores they shop at the most. You walk around a computer shop and choose 20 customers there for your survey.	2.) A country radio station wants to know what the most popular type of music is, so they ask their listeners to call in to say their favorite type.
3.) You want to know what 7 th graders think of their science class. You poll 100 random 7 th graders.	4.) You want to survey the students in your school about their exercise habits. At lunchtime you stand by a vending machine. You survey every student who buys something from the vending machine.

State whether or not the statement is biased or fair. If it is biased, explain why.

5.) Do you want a delicious salad for lunch or the usual sandwich?	6.) Do you watch TV on Saturday like everybody else?
7.) Do you eat the recommended number of servings for fruits and vegetables?	8.) I don't like these shoes, do you?

9.) You want to estimate the number of Which sample is best?	students in a middle school who ride the bus.
•) All students in the band
C.) 50 8 th graders at random D.	.) 100 students during the lunch periods
Explain why you selected your answer: a	nswer you
10.) A survey asked 72 randomly chosen school play. Twelve said yes. If there a predict the number of students who atte	
them said they were going to college. Sh	e of 60 out of 900 high school students. 75% of ne used these results to determine that 675 lanning to go to college. Do you agree with her
•	students if they plan to buy a school newspaper to buy a school newspaper. If 360 students rudents enrolled at the school.
13a.) Write an example of a biased ques	tion.
13b.) Rewrite the biased question to ma	ke it fair.