Name:_____   Date:_____

Practice: Populations and Samples

#1 Determine if the question below is biased or unbiased. Justify your answer. *Do you prefer to eat nutritious vegetables or greasy French fries?*	**#2** Determine if the sample described below is biased or unbiased. Justify your answer. *You want to find out what restaurant at the Food Court has the best food. You ask every 5th person who enters the Food Court.*
#3 Determine if the sample described below is biased or unbiased. Justify your answer. *You want to find out how many students at your school go to extra help on a regular basis. You ask 50 students who are getting on the late bus.*	**#4** You want to find out if the people in your town support the new mayor. What unbiased question would you ask? How would you collect an unbiased sample?
#5 You are collecting data to find out what the most popular lunch choice is. Each lunch period, you ask 15 students who buy lunch. There are 4 lunch periods a day. 25 students choose pizza. If there are about 600 students who buy lunch each day, about how many can you predict will buy pizza?	**#6** You want to find out what type of pet is most commonly adopted from the shelter. Over the course of a month, you randomly survey 40 people who have just adopted a pet. Of those 40 people, 23 adopted dogs. If about 4,500 people adopt pets each year, about how many can you predict will dogs?