Date

12-5	Practice		Form K
	Samples and Surveys		
Determine whether each data set is qualitative or quantitative.			
1. price of milk		2. car sales	
3. favorite ice cream		4. age at retirement	
5. miles per hour		6. lucky number	
 Determine whether each data set is <i>univariate</i> of 7. height and weight of your friends 9. how many sports your friends play 11. number of points scored 		 or <i>bivariate</i>. 8. age of your fish 10. distances driven 12. width and depth of patio 	

Determine whether the sampling method is *random*, *systematic*, or *stratified*. Tell whether the method will produce a good sample.

13. A counselor surveys students whose names are drawn out of a bag.

14. A teacher separates the students into boys and girls and randomly selects two students from each group to survey.

Determine whether each question is biased. Explain your answer.

15. Would you rather listen to boring classical music or upbeat pop music?

16. What is your favorite movie?

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Date_

Form K

12-5 Practice (Continued) Samples and Surveys

- **17.** You want to find out how much households in your city spend on utilities each month. You ask every tenth person at a local restaurant. How might this create a bias in your results?
- **18.** You want to find out how much time students in your school spend watching television each week. You ask every tenth student in your Advanced Biology class. How might this create a bias in your results?
- **16.** A pizza parlor owner wants to determine whether a new topping, spicy Italian sausage, would be popular with his customers. How could each factor below create bias in the survey results?
 - **a.** The owner interviews customers outside the library.
 - **b.** The owner interviews his adult customers.
 - **c.** The owner asks, "Which would you prefer: pepperoni or spicy Italian sausage?"

In each situation, identify the population and sample. Tell whether each sample is a *random*, *systematic*, or *stratified* sample.

- **20.** At an office supply store, every fourth customer is asked to complete a survey.
- **21.** You ask a random selection of three girls and three boys in your Algebra class what their favorite movie is.

Classify the data as qualitative or quantitative, and as univariate or bivariate.

- **22.** age and height of people at the park
- **23.** favorite sports and favorite hobbies of students in the high school
- **24.** weight of wildlife captured, tagged, and released