Name:_	Date:		
	Survey Sampling		
Instruct			
	d the survey sampling scenario below. Then, read the questions that follow. Re-read the scen sed on the questions. Finally, write your response to each question.	nario	
	<u>Scenario</u>		
	A researcher was asked to design an investigation based on the following research question:		
	Do American adult males spend more of their prime time hours online or watching regular television? (Prime time is defined as weekday evenings from 7pm to 9pm)		
	The researcher decided to conduct a survey sample. He determined that he would choose 1,000 American males over the age of 18 through a landline telephone survey. The researche would randomly select the telephone numbers of adult males that live on the east coast of the Jnited States.		
Answei	he following questions:		
1.	What is the target population and what is the sample?		
2.	Explain why the sampling plan might be biased.		
3.	What can the researcher do to reduce the sampling bias?		
4. A study was conducted at a particular high school about whether girls that attend that sc prefer Red Vines® or Twizzlers®. Identify the following as either a parameter or a statistic circling the correct term:			
	a. A random sample of 100 girls was selected. The results were that 40% preferred Red Vines $^{\circ}$. The number "40%" is:		
	Parameter or Statistic		
	b. All of the girls at the high school were asked about their preference. The results were the 45% preferred Red Vines [®] . The number "45%" is:	nat	

Statistic

or

Parameter

Name:	Date:

Survey Sampling

Sample Answer Key

Instructions:

Read the survey sampling scenario below. Then, read the questions that follow. Re-read the scenario focused on the questions. Finally, write your response to each question.

Scenario

A researcher was asked to design an investigation based on the following research question:

Do American adult males spend more of their prime time hours online or watching regular television? (Prime time is defined as weekday evenings from 7pm to 9pm)

The researcher decided to conduct a survey sample. He determined that he would choose 1,000 American males over the age of 18 through a landline telephone survey. The researcher would randomly select the telephone numbers of adult males that live on the east coast of the United States.

Answer the following questions:

- 1. What is the target population and what is the sample? The target population is all American adult males. The sample is the 1000 American males over the age of 18.
- 2. Explain why the sampling plan might be biased. The sampling might be biased because the researcher is only contacting American adult males through a landline telephone survey and everyone may not have access to a landline phone (it would under-represent those without landline phones). Also, the researcher is only surveying adult males that live on the east coast of the United States which would not be representative of the entire United
- 3. What can the researcher do to reduce the sampling bias? The researcher could use the United States census to randomly select American adult males from the population - this would reduce the sampling bias because everyone in the United States could possibly be surveyed.
- 4. A study was conducted at a particular high school about whether girls that attend that school prefer Red Vines® or Twizzlers®. Identify the following as either a parameter or a statistic by circling the correct term:
 - a. A random sample of 100 girls was selected. The results were that 40% preferred Red Vines[®]. The number "40%" is:

Parameter	or	Statistic

b. All of the girls at the high school were asked about their preference. The results were that 45% preferred Red Vines®. The number "45%" is:

Parameter	or	Statistic