Name:	Date:

Lesson 26: Homework (Day1)

1)	A town council is thinking about buying land to establish a recreational area for all
	citizens of the town. To see if the townspeople would approve of the purchase, a survey
	is to be mailed out to a sample of town residents. The options for the survey are as
	follows: the first 50 people to exit the town grocery store, the first 50 people to exit the
	high school football game, the first 25 women to exit the shopping mall, or 40 randomly
	selected town residents from the phone book. Identify which sample would be the most
	representative of town voters. Then explain what makes each of the other samples not
	representative.

Sakiya surveyed students in her school about their favorite sports. On Monday, she randomly surveyed 85 students in the cafeteria. On Tuesday, she surveyed 15 of her teammates on the school soccer team. Which statement *best* describes the samples Sakiya used?

- A Neither sample represents the school population.
- **B** Both samples likely represent the school population.
- C The data gathered on Tuesday most likely represent the school population, but the data gathered on Monday most likely do not.
- The data gathered on Monday most likely represent the school population, but the data gathered on Tuesday most likely do not.

Reason and Write

Example

a survey.

Topic

Study the example. Underline two parts that you think make it a particularly good answer and a helpful example.

Select a topic and a population from the lists below for

Population

		Favorite store at the local mall	Teachers in your school		
		Favorite snack	Students in your school		
		Time to get to work or school	Shoppers at the local mall		
		Describe the attributes of the people that should be represented in a random sample of your population.			
		Then describe a sample for this population that could be considered biased. Explain why it might be biased.			
		Show your work. Use words to ex	xplain your answer.		
a)	Describe the attributes of the	ne people that should be represen	ted in a random sample of your population.		
	Show your work.				
b)	Then describe a sample for	this population that could be cons	sidered biased. Explain why it might be biased.		
	This nonulation could be	considered hiased hecause			
	This population could be considered biased because				

	Lesson 26: Exit Ticket(Day1)			
1	Janine and Miguel are planning the activities for a student event and want to survey a random sample of students about what relay races to have. Janine suggests asking all the students on the track team, both boys and girls, about their relay preferences. Miguel says that this would be a biased sample. Is Miguel correct? Explain.			
Name	e: Date:			
	Lesson 26: Exit Ticket(Day1)			
0	Janine and Miguel are planning the activities for a student event and want to survey a random sample of students about what relay races to have. Janine suggests asking all the students on the track team, both boys and girls, about their relay preferences. Miguel says that this would be a biased sample. Is Miguel correct? Explain.			
Name	e:			
	Lesson 26: Exit Ticket(Day1)			
1	Janine and Miguel are planning the activities for a student event and want to survey a random sample of students about what relay races to have. Janine suggests asking all the students on the track team, both boys and girls, about their relay preferences. Miguel says that this would be a biased sample. Is Miguel correct? Explain.			

Date:_____

Name: _____

Name:	Date:

Lesson 26: Homework (Day2)

Karina and Juan are planning the food for a student event and want to survey a random sample of students about what food to serve. Karina suggests asking all the student soccer players, both boys and girls, about their food preferences. Juan says that this would be a biased sample. Is Juan correct? Explain.		
Describe a way to find a random sample of local parents to survey about what structures and equipment to include in a planned playground at a newly constructed park.		
Describe a way to find a random sample of students to survey about what foods to include on the revised school lunch menu.		

7	A community center employee plans to start a new after school activity for local
	high school students and is trying to decide whether to offer a music, sports, art, or
	tutoring program.

Part A

Which survey method would likely produce a representative sample of local high school students' preferences? Choose all that apply.

- A Ask one high school participant from every sports team currently run by the community center.
- **B** Ask the local high school to select every fifth pupil from an alphabetical list and ask those students to participate in a survey.
- C Send a survey to every community center employee whose name begins with a letter in the first half of the alphabet.
- D Mail a survey addressed to the homeowner of every fourth house within five blocks of the community center.
- **E** Deliver surveys to the homes of high school students who live within one mile of the community center, addressed to the student.

Part B

xplain why each of the survey methods you did not select in Part A would not be kely to produce a representative sample of local high school students' preferences.		