Population	and	Samples
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Q: How can you use a Sample to gain information about a population?

A: Select a _____ that represents the _____ and ____ the Sample using an unbiased question.

Vocab

1. Population:

2. Sample:

3. Random Sample:

4. Biased sample:

5. Unbiased sample!

2 types of surveys - 1

2 different types of samples - 1

A survey conducted at an ice cream store asked only mothers their favorite ice cream flavor.

A reporter asked every tenth person coming out of a theater how well they liked the movie.

A survey asked only girls to identify their favorite item on the school cafeteria menu.

		Date _	Class
LESSON	Populations and Samp	les	
12-1	Practice and Problem Solvi	ng: A/B	
Name to answer	he <i>population</i> and the <i>sampl</i> e in ea	ich exer	cise. Explain your
	e number of roadrunners born nin a 50-mile radius of Lubbock.	2.	The cars traveling at 75 kilometers per hour between Beaumont and Lufkin.
	he sampling method that will best tion in each situation. Explain you		
3. Stu	dent satisfaction with the middle scho	ool cafete	eria.
Me	thod A: Survey 40 students in two se	venth-gra	ide math classes
	percent are satisfied with the food in		
72 Me	percent are satisfied with the food in thod B: Survey 65 students from a lis percent are satisfied with the food in	the cafeto t of all stu	eria. udents in the school.
72 Me 85 Me	thod B: Survey 65 students from a lis	the cafetont t of all stu the cafeton	eria. udents in the school. eria.
72 Me 85 Me sch	thod B: Survey 65 students from a lis percent are satisfied with the food in thod best represents the	the cafeto t of all sto the cafeto whole po	eria. udents in the school. eria.
72 Me 85 Me sch 4. Pre Me	thod B: Survey 65 students from a lis percent are satisfied with the food in thod best represents the nool.	the cafeto t of all sto the cafeto whole po mayor. osen vote	eria. udents in the school. eria. pulation of the ers who live in the
72 Me 85 Me sch 4. Pre Me tow	thod B: Survey 65 students from a list percent are satisfied with the food in thod best represents the mool. edicted winner in an election for town thod C: Telephone 100 randomly-cho	the cafeto t of all sto the cafeto whole po mayor. osen vote umbent note	eria. udents in the school. eria. pulation of the ers who live in the nayor. in the town for more

Which of these may be biased samples? Explain your answer.

- 5. A town official surveys 50 people in a library to decide if town residents want the library services and facilities expanded.
- 6. A cable television company randomly calls 200 customers and asks them if they are satisfied with their service.