

Lesson 11-5 (pp. 596–600)

Random Samples and Surveys

Lesson Objectives 1 Identify a random sample 2 Write a survey question	NAEP 2005 Strand: Data Analysis and Probability Topic: Experiments and Samples Local Standards: _____
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Vocabulary

A population is _____

A sample is _____

A random sample is _____

A biased question is _____

Example

- 1 Identifying a Random Sample** Suppose you survey students in your school about their snacking habits. Would you get a random sample if you questioned different English classes? Explain.

Check Understanding

1. Suppose you are surveying a store's customers to find why they chose that store. Which sample is more likely to be random? Explain.

- a. You are surveying 20 people outside the entrance from 5:00 P.M. to 8:00 P.M.

- b. You are surveying 20 people outside the entrance between opening and closing.

- c. **Reasoning** How would you take a random sample of a whole town?

Example

② Identifying Biased Questions Is each question biased or fair? Explain.

- a. Which is a brighter color, pink or green?

This question is . The choices are presented
.

- b. Is an electric pink shirt brighter than a green shirt?

This question is . It implies that pink is brighter, thus
 the responses.

Check Understanding

2. Is each question *biased* or *fair*? Explain.

- a. Do you prefer slimy anchovies or healthy vegetables on your pizza?

- b. Which pizza toppings do you like best?