Date

Name

ESSON 10.1

Practice B 10.1 For use with the Jasson "//

For use with the lesson "Analyze Surveys and Samples"

In Exercises 1 and 2, identify the population and classify the sampling method.

- **1.** The manager of a music store wants to evaluate how customers rate the selection of music the store has in stock. Customers are given comment cards with their receipts.
- **2.** Your school's administrators want to know if students are satisfied with the choices of activities for activity period. In each grade, every seventh student in alphabetical order is surveyed.

Tell whether the survey method used is likely to result in a biased sample.

- **3.** A bicycling club wants to gather information about biking conditions throughout a city. A survey for bicycle riders is posted on the club's website.
- **4.** A management company that owns several apartment buildings wants to gather information about tenant satisfaction with the condition of the apartments. They send a survey to 30 random tenants in each of the buildings.

In Exercises 5 and 6, tell whether the question is potentially biased. *Explain* your answer.

- **5.** Don't you think that the lunch menu should include grilled chicken rather than pizza because grilled chicken is healthier for you?
- **6.** Do you think that the city's excess revenue should be spent on road repairs or building a new sports stadium?

In Exercises 7–9, explain why the question is biased. Then rewrite it so that it is not.

- **7.** Don't you agree that it is better to offer an accounting class as an elective rather than a computer programming class?
- **8.** Don't you agree that a science center would be more fun to go to than a planetarium?
- 9. Would you pay even higher taxes to fund a new highway?
- **10. Bus Stop Conditions** A newspaper does a report on the condition of the bus stops in a large city. Part of the report includes a survey of people living in the area. The survey is done by asking people at a mall what they think of local bus stops. Is the sample likely to be biased? *Explain*.
- **11.** After-School Activities You plan a report on the participation of students at your school in after-school activities for your school's website. *Describe* how you could choose a representative sample. *Justify* your sampling method.