

## **1-1: Populations and Samples**

### ***Homework and Practice C***

**Identify the population in each situation for problems 1-5.**

1. The tennis instructor is trying to find a day to schedule practice for the high-school tennis team.      2. The dance committee asks students about their favorite local bands for a middle-school dance.

a. all tennis team members

b. all high-school students

a. all students in the school

b. all seventh-grade students in the school

3. A quality control specialist is checking bicycle tires made on an assembly line.
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4. The owner of a health club is asking members about which pieces of equipment they use in the gym.
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5. A drama teacher is asking seventh-grade students to choose a play to perform.
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**The manager of a movie theater is conducting a customer survey. Is each sampling method random? Explain.**

6. The manager questions 200 moviegoers who were randomly selected as they exited the theater.
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7. The manager questions the first 10 customers each day.
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8. The manager questions all customers between the ages of 10 and 16.
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**A marketing representative from a radio station is gathering information from a local middle school about favorite musical groups. Is each sampling method random? Explain.**

9. The representative questions the first 20 students who arrive at school on Monday morning.
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10. The representative sends a survey to 50 students chosen in the middle of a list of all students provided by the school.
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11. The representative puts all student names in a hat and selects 30 students to question.
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12. A local radio station is surveying local families about what radio stations they listen to. The station selects families by randomly calling names in the phone book. What is the population? Is the sampling method random? Explain.
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13. The manager of a department store conducts a survey about customer satisfaction. She surveys 50 random shoppers who come into the store on Saturday. What is the population? Is the sampling method random? Explain.
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