

# Chapter 11 Practice Test

**For #1 to #4, choose the best answer.**

1. A company displayed 2 sports shirts at a school with 500 students. The students were asked the following question.

**Over 78% of students at Central High will buy Shirt B.**



**A: \$35.99**



**B: \$44.99**

Which one of these two sports shirts would you buy?

What influencing factor might affect the data being collected?

- A** bias
- B** timing
- C** ethics
- D** cultural sensitivity
2. Diana wants to survey grade 9 students about their favourite flavour of soft drink. Which question is most appropriate?
- A** Is cola your favourite type of soft drink?
- B** Do you like soft drinks?
- C** What is your favourite flavour of soft drink?
- D** What brand of soft drink do you like?
3. An eco-tourism company is researching how to expand its tours. It divides the western provinces into 8 areas. Then, it surveys 10% of the population in each area. Which sampling method is this?
- A** convenience sample
- B** stratified sample
- C** systematic sample
- D** voluntary response sample
4. A business sends questionnaires to 50% of its employees randomly selected from a list. Which sampling method is this?
- A** convenience sample
- B** stratified sample
- C** systematic sample
- D** voluntary response sample

***Complete the statements in #5 to #7.***

5. A small group that represents a population is a \_\_\_\_\_.
6. Choosing members of the population at fixed intervals from a membership list describes a \_\_\_\_\_.
7. A Web site that asks browsers to fill out an online survey is using a \_\_\_\_\_.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Short Answer

8. Cheyenne surveys students in her high school about types of music for a school dance. They can choose rap, alternative, rock, or country.

a) What is the population for this study?

The population is \_\_\_\_\_.

b) Write a clear survey question that is free from influencing factors.

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c) Describe a sampling method Cheyenne could use.

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9. On an assembly line for cell phones, a random sample shows 3% are defective.

a) How many do you predict would be defective if 3248 were made?

Sentence: \_\_\_\_\_

b) Write 1 assumption you made in your prediction.

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