Answers to Concept Check Questions

Black, Bayley, and Castillo:

Business Statistics, Third Canadian Edition

# CHAPTER 1

Page 1-5 Concept Check

LO 1

Fill in the blanks.

1. Descriptive statistics can be used to summarize the data to describe a data sample either numerically or graphically.

2. Statistical inference is inference about a population from a random data sample drawn from it.

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LO 2

1. c.
2. d.
3. b.
4. a.

**CHAPTER 2**

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The value halfway across the class interval (calculated as the average of the two class endpoints) is called the class midpoint. For each class, the individual class frequency divided by the total frequency is called the relative frequency. Moreover, a running total of frequencies through the classes of a frequency distribution is called the cumulative frequency.

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1. Sort data in ascending order.
2. a)

b)

c)

1. When decision makers want to see a cumulative growth.
2. Stem and leaf plots delineate every single x value in the data set so the spread of data is readily seen whereas a histogram only shows classes of data and not the exact values of data within each class.

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1. False
2. a. bar chart b. pie chart c. pareto chart
3. Histograms plot quantitative continuous data, whereas bar charts plot qualitative data.