

STUDENT SOLUTION MANUAL

Business Statistics in Practice, Second Canadian Edition

by

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CHAPTER 1: An Introduction to Business Statistics

1.9 [S 1.2]

Most waiting times will be from .4 to 11.6 minutes. An estimate of the proportion of waiting times less than 6 minutes is found by counting the number of customers with waiting times less than 6 minutes and dividing by

the total of 100 customers. $\frac{60}{100} = .6$.

1.15 [LO 3]

- a. The process does not seem to be in control because the variation is not constant at a horizontal level.
- b. Claims numbered 47–56 correspond to March 2005. The plot shows a sharp increase revealing instability. The ice storm had a significant impact on the time needed to process claims. Improvement is needed.

1.17 [LO 3]

- a. Yes, in control. There is constant variation at a horizontal level.
- b. Most breaking strengths will be between 21.3kg and 24.5kg.

1.21 [LO 4]

Ordinal, nominative, ordinal, nominative, ordinal, and nominative.

1.35 [LO 4]

Nominal, ordinal, ordinal, ordinal, nominal, nominal.

1.37 [LO 3]

Not in statistical control.