

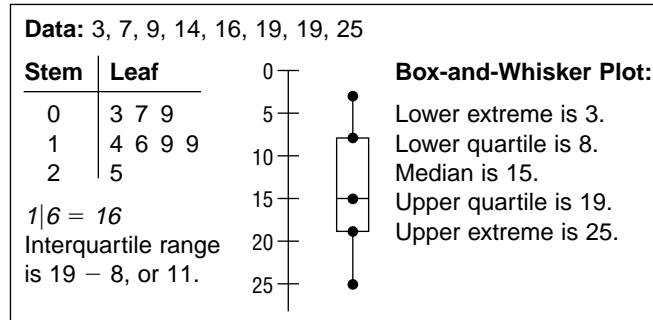
Study Guide

Student Edition
Pages 427–432

Integration: Statistics Box-and-Whisker Plots

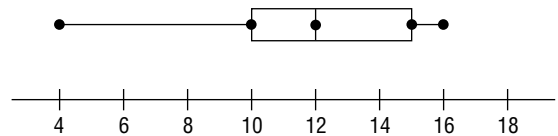
A box-and-whisker plot displays the extremes, the quartiles, and the median for a set of data. It may be drawn horizontally or vertically.

Study the box at the right. Note the dots marking the extremes, the quartiles, and the median.



Answer each question for the indicated box-and-whisker plot.

1. What are the upper and lower extremes?
2. What is the median?
3. What are the upper and lower quartiles?
4. What is the interquartile range?



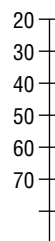
Use the data given to complete the following.

Data: 19, 49, 73, 30, 32, 46, 51, 30

5. Graph the data on a stem-and-leaf plot.

Stem	Leaf

6. Transfer the data to a vertical box-and-whisker plot.



7. What are the extremes?
8. What is the interquartile range?
9. Why are the whiskers unequal?
10. How is an outlier determined? Are there any outlier values?