NAME _____ DATE _____

Module 19 Analyzing Data and Statistics
Lesson 3 Analyzing and Describing Graphs

guided notes

Lesson Objectives

- Analyze stem-and-leaf plots.
- Create and analyze box-and-whisker plots.

The range of a data set is the difference between the _____ and _____ values.

The median is also known as the _____, or Q_2. _____ percent of the data fall at or below the median.

The first quartile, Q_1, is the median of the _____ of the data set. _____ percent of the data fall at or below the first quartile.

The _____, Q_3, is the median of the upper subset. _____ percent of the data fall at or below the third quartile.

The interquartile range, IQR, is the difference between the _____ and _____ quartiles.

The _____ consists of the minimum, the first quartile, the median, the third quartile, and the maximum.

1 Using the given five-number summary, make a box-and-whisker plot for the ages of the baseball players who play for the Tigers.

	Age (yrs)
Minimum:	20
First Quartile, Q_1:	23
Median, Q_2:	25.5
Third Quartile, Q_3:	29
Maximum:	37

2 Using the given five-number summary, make a box-and-whisker plot for the ages of the baseball players who play for the Braves on the same graph as the Tigers players' ages.

	Age (yrs)
Minimum:	22
First Quartile, Q_1:	28
Median, Q_2:	31
Third Quartile, Q_3:	35
Maximum:	41

3 Compare the box-and-whisker plots for the weights of the Yankees' players and the Expos' players.