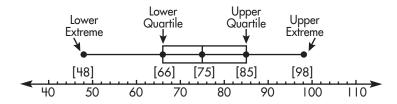
Lesson 7.13 Plotting Data: Box-and-Whisker Plots

Box-and-whisker plots are helpful in interpreting the distribution of data. For example, the results of a test might include these 15 scores:

The numbers should be arranged in order:

The median is 75. The **lower quartile** is the median of the lower half (66). The **upper quartile** is the median of the upper half (85). Draw a box around the median with its ends going through the quartiles. Each quartile contains one-fourth of the scores.



Answer the questions using the box-and-whisker plot above.

- 1. Half of the students scored higher than _____ on the test.
- 2. _____ scores are represented in the box part of the plot.
- 3. The range of the scores on the test is ______.

The scores on a recent daily quiz were 10, 15, 20, 20, 30, 30, and 40.

- 4. What is the median of these scores?
- 5. What is the lower quartile?
- 6. What is the upper quartile?
- 7. Using the number line below, draw a box-and-whisker plot for these scores.

