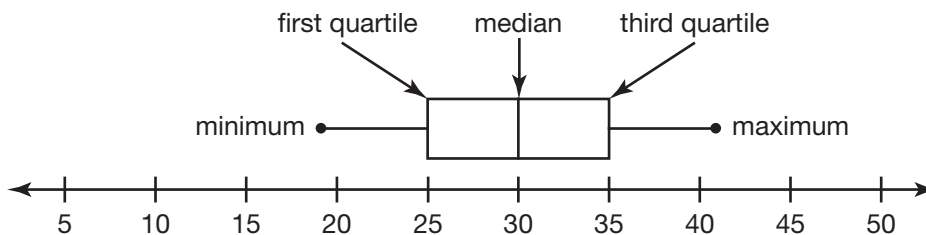


Box Plots

To create a box plot for a data set, follow these steps:

- Step 1:** Check to see if the numbers are in order from least to greatest. If they are not, place them in that order. Draw a number line using an appropriate scale to include the numbers.
- Step 2:** Find the least value and greatest value. The least is the *minimum*. The greatest is the *maximum*.
- Step 3:** Find the number that is midway between the minimum and maximum. This value is the *median*.
- Step 4:** Find the value that is halfway between the minimum and the median. This is the *first quartile*.
- Step 5:** Find the value that is halfway between the median and the maximum. This is the *third quartile*.



For **1** through **5**, use the five-step process for the following data:

8, 9, 3, 1, 2, 6, 5, 7, 4, 0, 10

- 1.** Are the data in this set in order? If not, write them in order.

- 2.** What is the median? How can you tell?

- 3.** What is the minimum?
The maximum?

- 4.** What is the first quartile?
The third quartile?

- 5.** Draw a box plot for this data.