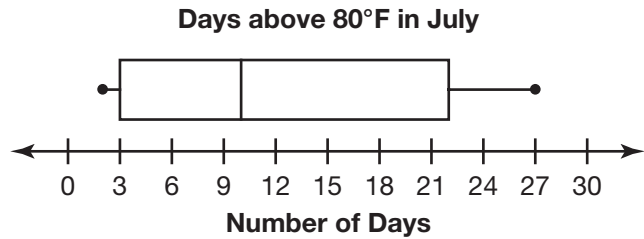


Summarizing Data Distributions

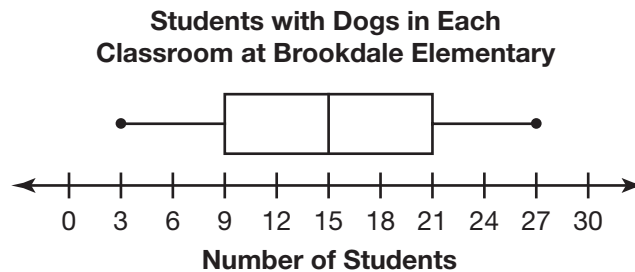
The box plot to the right displays data for the number of days the temperature was over 80°F for the month of July. Data in displays can be summarized.

You can summarize this data set by choosing some ways to describe it. The data are spread out to the right.

The median is 10, and it describes the center of the data. The first quartile is 3 and the third quartile is 22. The interquartile range or IQR describes the variability and it can be found by subtracting the first quartile (3) from the third quartile (22) to get 19.



Use the box plot to answer Questions 1 through 4.



1. What is the greatest number of students in a classroom that have a dog? The least? _____
2. a. What is the median? _____
 b. What are the first and third quartiles? _____
 c. What is the interquartile range? _____
3. Describe the shape of the data distribution.

4. **Writing to Explain** If a dot plot was used to display the same data, make a prediction about how the data would look.

