Comparing Data Displayed in Box **Plots**

Measurement and -7.12.A Compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads.

ESSENTIAL QUESTION

How do you compare two sets of data displayed in box plots?

EXPLORE ACTIVITY

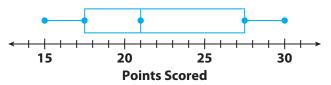




Analyzing Box Plots

Box plots show five key values to represent a set of data, the least and greatest values, the lower and upper quartile, and the median. To create a box plot, arrange the data in order, and divide them into four equal-size parts or quarters. Then draw the box and the whiskers as shown.

The number of points a high school basketball player scored during the games he played this season are organized in the box plot shown.





A Find the least and greatest values.

Least value: _____

Greatest value: _____

Find the median and describe what it means for the data.

Find and describe the lower and upper quartiles.

D The interguartile range is the difference between the upper and

lower quartiles, which is represented by the length of the box. Find the interquartile range.

 $Q_3 - Q_1 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

