LEsson Comparing Data

## 11.3 Displayed in Box Plots

## EXPLORE ACTIVITY Prorld titc 7.12.A

## 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: $\qquad$ Greatest value: $\qquad$
B Find the median and describe what it means for the data.
$\qquad$
$\qquad$
$\qquad$
C Find and describe the lower and upper quartiles.
$\qquad$

D The interquartile range is the difference between the upper and lower quartiles, which is represented by the length of the box. Find the interquartile range.

$\mathrm{Q}_{3}-\mathrm{Q}_{1}=$ $\qquad$ - $\qquad$ $=$ $\qquad$

