

Using Box Plots to Compare Populations



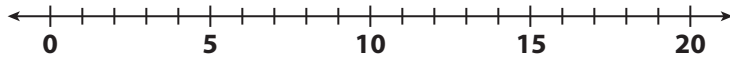
You can also compare two populations using random samples and box plots.

A survey of 7th graders asks girls and boys how many baseball caps they own.

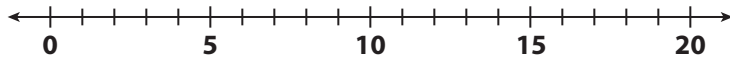
Girls
8, 6, 4, 18, 3, 7, 5, 8, 8, 7

Boys
9, 18, 9, 7, 10, 15, 18, 10, 9, 12

- A** Make a box plot for the number of baseball caps girls own.



- B** Make a box plot for the number of baseball caps boys own.



- C** Compare the box plots.

The plot for boys has a **lesser / greater** range, but a **lesser / greater** interquartile range. The middle 50% of caps was less spread out for the _____.

Reflect

2. What can you infer about the populations by comparing the box plots for the samples? Justify your answer.
