1.3 Displaying Quantitative Data: Dotplots Part 3

How to Describe the Distribution of a Quantitative Variable

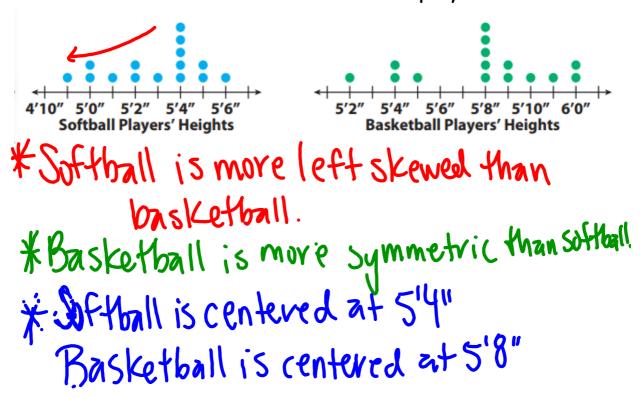
In any graph, look for the overall pattern and for clear departures from that pattern.

*You can describe the overall pattern of a distribution by its shape (skewed? symmetric? how many peaks?), center (where is the center located on the dotplot), and variability (what is the spread of data in each graph).

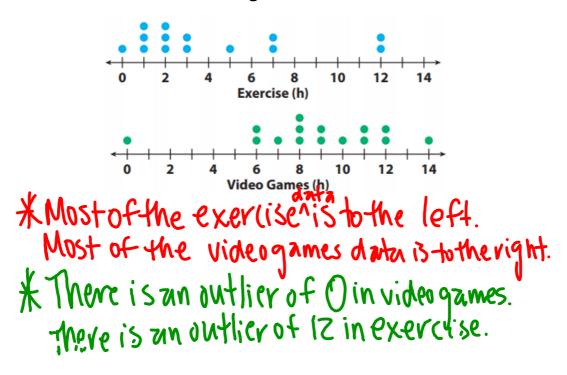
An important kind of departure is an **outlier, a value that falls outside the overall pattern.

When comparing distributions of quantitative data, it's not enough just to list values for the center and variability of each distribution. You have to explicitly compare these values, using expressions like "greater than", "less than", or "about the same as".

Example: Compare the distributions of the heights of 15 softball and basketball players.



Example: Compare the distributions of the number of hours a class of students spend on exercise and video games.



Example: Compare the distributions of the shoe sizes of two different groups of people.

