

Go to this website

<http://statweb.calpoly.edu/chance/applets/DotPlotApplet/DotPlotApplet.html>

1. Click the Draw Sample button until you find a distribution that is **skewed to the right**.
2. Click the Guess the Mean/Median box. Two lines will appear. Move these lines to where you think the mean and then the median will be positioned.
3. Click the Show Actual box. *How did you do?*

Guessed Mean: _____ Actual Mean: _____

Guessed Median: _____ Actual Median: _____

4. Repeat steps 1-3 for a symmetric distribution.

Guessed Mean: _____ Actual Mean: _____

Guessed Median: _____ Actual Median: _____

5. Repeat steps 1-3 for a distribution skewed to the left.

Guessed Mean: _____ Actual Mean: _____

Guessed Median: _____ Actual Median: _____

6. Repeat steps 1-3 for a distribution has a large outlier.

Guessed Mean: _____ Actual Mean: _____

Guessed Median: _____ Actual Median: _____

7. Now click on that outlier and move it to be further and further away from the rest of the distribution.

How does the mean change?

The median?