Vocabulary for Describing Charts and Plots

- Center and Spread
- Clusters and Gaps
- Outliers and Other Unusual features
- Shape

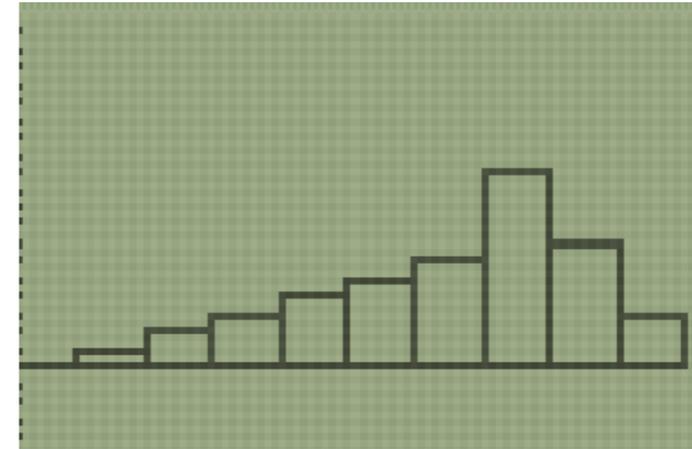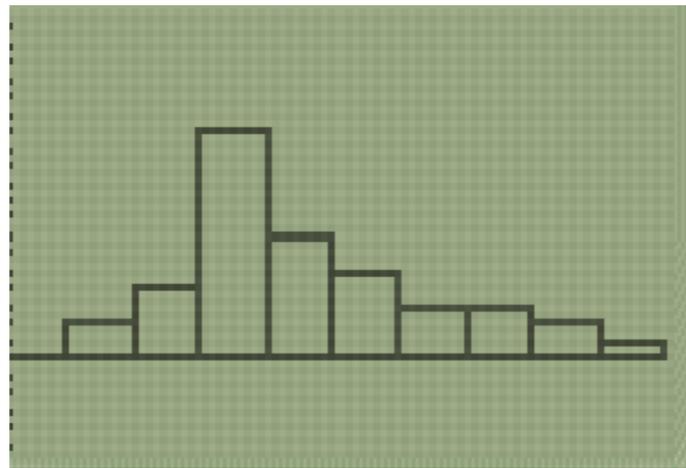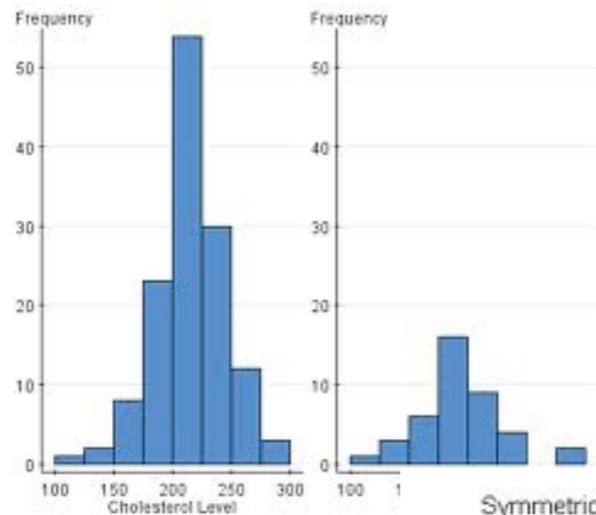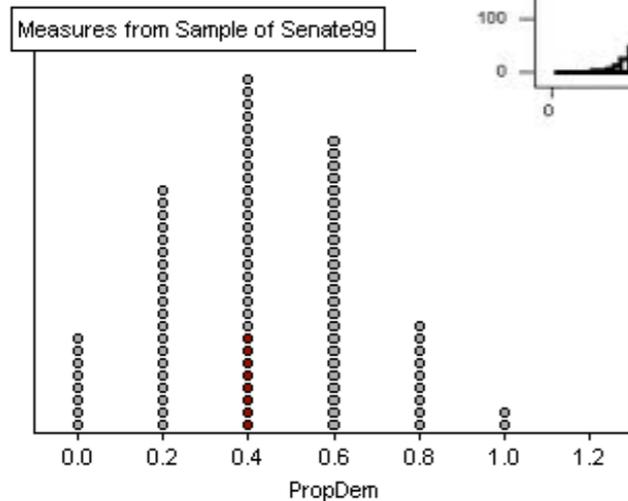Don't worry, we have an acronym for this!

Remember your SOCS!!!!

Shape

Skewed Right

Skewed Left

"Roughly" Symmetric

"Approximately" Normal

Symmetric, Double-peaked (Bimodal) Distribution

Measures from Sample of Senate99
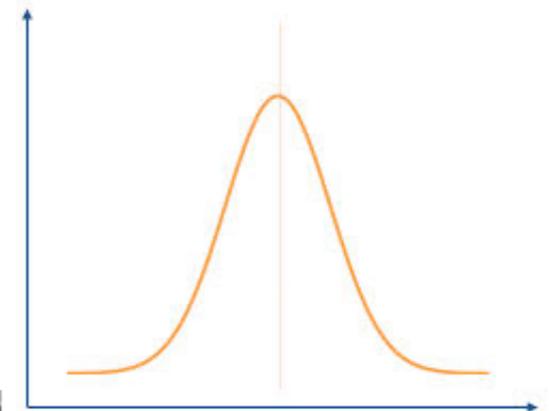
Remember this from your calculators?
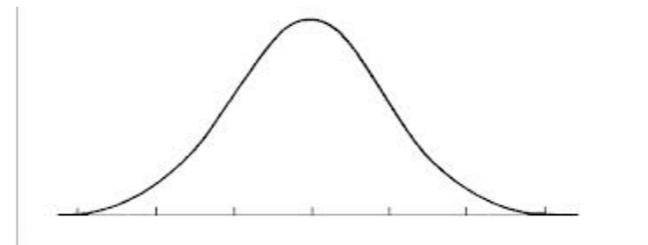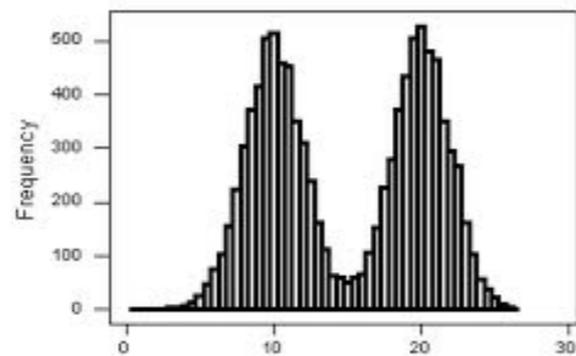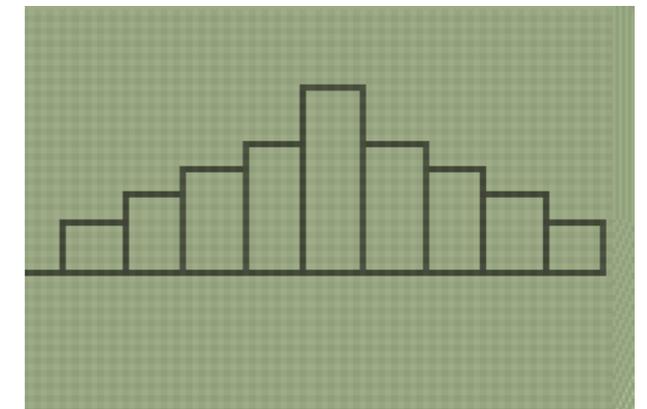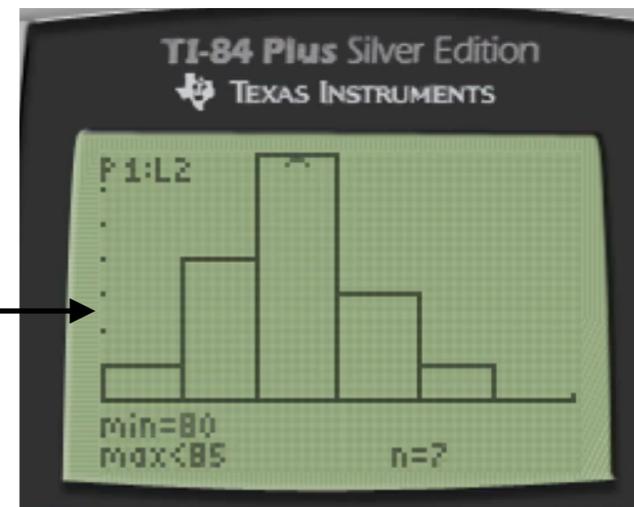
Shape
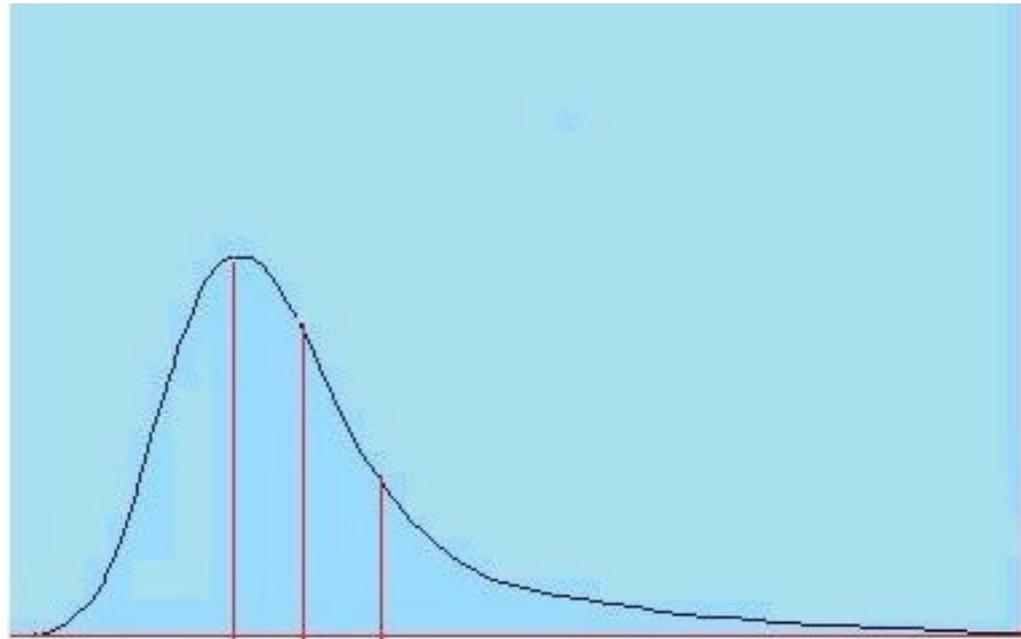
Mode Median Mean

POSITIVELY SKEWED DISTRIBUTION

Mean Median Mode

NEGATIVELY SKEWED DISTRIBUTION

•**skewed right**

•**positively skewed**

The mean is to the right of the median.

•**skewed left**

•**negatively skewed**
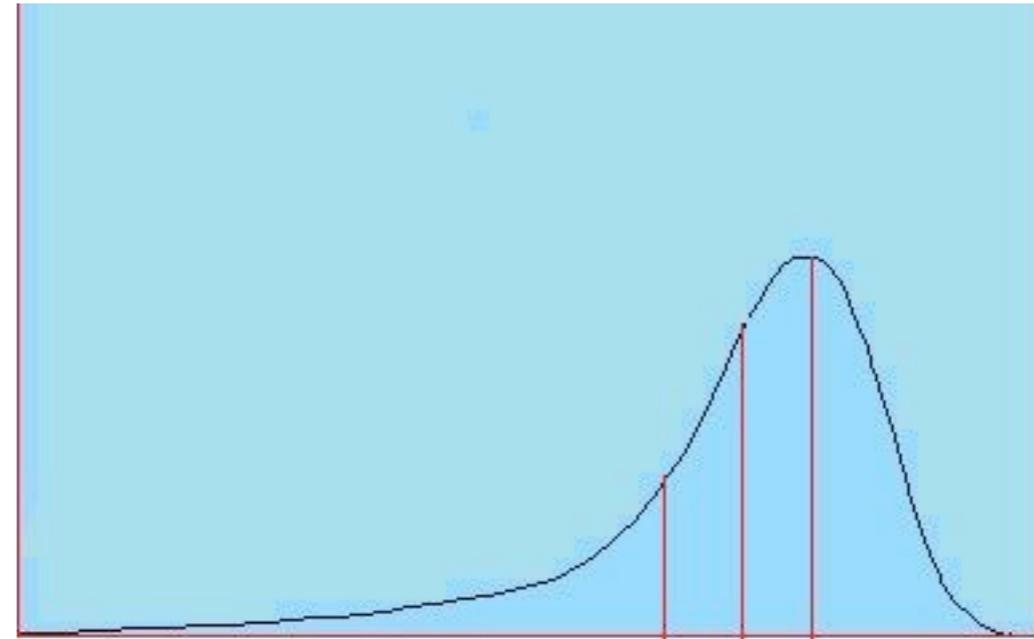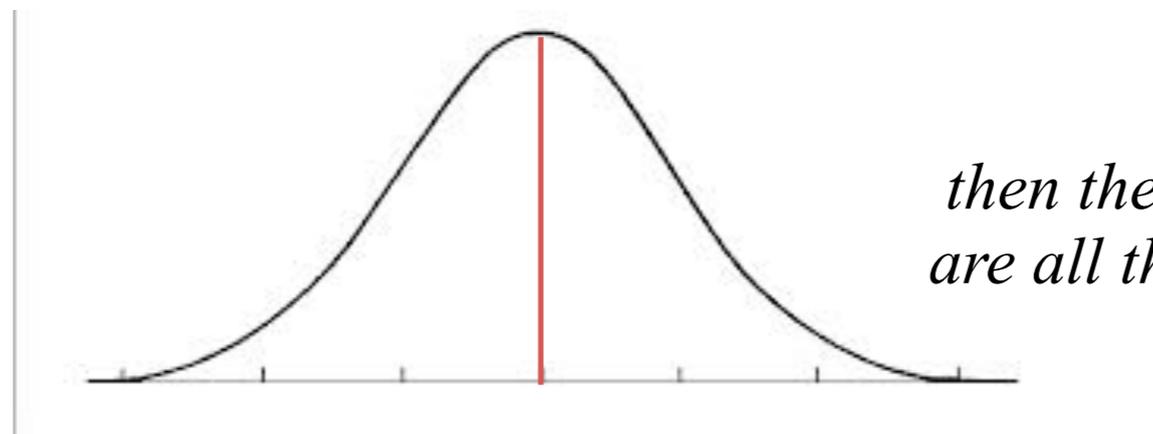
The mean is to the left of the median.

Note that when the graph is considered "normal"

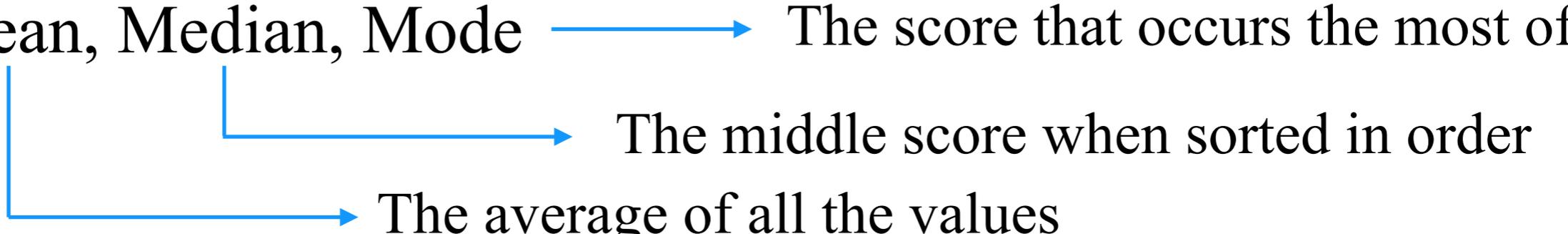*then the mean, median, and mode are all the same.*

Shape

Outliers

Patience. Outliers will be discussed
soon. Don't mention them yet!

Center

Mean, Median, Mode $\longrightarrow$ The score that occurs the most often

The middle score when sorted in order

The average of all the values

Spread

Range, Interquartile Range, Standard Deviation

When comparing two or more graphs do NOT just quote each graph's SOCS.

You must use comparative words -

"Smaller than"

"Larger than"

"Similar to"

AP Review problems to come will give us a great opportunity to practice this

So to recap:

Shape

    "Roughly"   Skewed   Skewed
    Symmetric   Right   Left

                                "Approximately"
                                    Normal

Outliers

Patience. Outliers will be discussed
soon. Don't mention them yet!

Center

Mean, Median, Mode

Spread

Range, Interquartile Range, Standard Deviation