**What words/numbers can I use to describe graphs?**

For one-variable quantitative graphs (Dotplots, Stemplots, Boxplots, Histograms)

|  |  |  |
| --- | --- | --- |
| **S**HAPE | SymmetricSkewedClustersGapsMound-Shaped (Normal)Uniform | Use your favorite “-ly” word“Fairly symmetric”“Roughly normal” |
| **O**UTLIERS | Outside the pattern of the rest of the data | When a data set has outliers, the mean will be affected by the outliers. May want to use the median to describe the center |
| **C**ENTER | MiddleMeanMedian | When a data set is pretty skewed, the mean will be “skewed” too. May want to use the median to describe the center |
| **S**PREAD | RangeIQR (Interquartile Range = Q3-Q1)(Standard deviation) |  |
| When **COMPARING** two graphs…use your “-er” words.*“The center of graph A is LOWER than the center of graph B”**“The spread of graph A is LARGER than the spread of graph B”**“Graph A is MORE symmetric than Graph B”* |

For two-variable quantitative graphs (scatterplots)

|  |  |  |
| --- | --- | --- |
| **Direction**PositiveNegative | **Strength**StrongWeakFairly strong/weak | **Form**LinearNonlinear |