



Chapter 8
Analyzing Data Sets for One Variable
Cornell Notes/Summary Sheet

Name: _____
Period: _____

Lesson 8.1 – Big Ideas

- Dot plot
- Data distribution – symmetric, skewed right, skewed left
- Box-and-whisker plot
- Five number summary: minimum, Q1, median, Q3, maximum
- Histogram
- Frequency & bin

Your Notes

Lesson 8.2 – Big Ideas

- Measure of central tendency
- Mean
- Median
- Which measure of central tendency BEST describes the data: mean or median?

Your Notes

<p><u>Lesson 8.3 – Big Ideas</u></p> <ul style="list-style-type: none"> • Interquartile range, IQR <i>IQR measures how far the data is spread out from the median.</i> • Lower fence • Upper fence • Outlier • How do you use the IQR to identify outliers in a set of data? 	<p><u>Your Notes</u></p> <p>Online five number summary: http://www.mathcalcs.com/</p>
<p><u>Lesson 8.4 – Big Ideas</u></p> <ul style="list-style-type: none"> • Standard deviation <i>Measures how far the data is spread out from the mean.</i> • Interpret the meaning of a smaller standard deviation vs. a larger standard deviation • Normal distribution • How can you use the graph of the standard deviation 	<p><u>Your Notes</u></p>
<p><u>Stats on the Graphing Calculator</u> <i>To Get Statistical Information – 5 number summary, mean, etc.</i></p> <ul style="list-style-type: none"> ❖ Place data in Lists: STAT → EDIT <ul style="list-style-type: none"> ➢ Do you have current data in L1? <ul style="list-style-type: none"> ▪ Scroll up, highlight L1, press Clear, Enter ▪ Do not use the delete button! ➢ Enter the data in L1. ❖ Engage 1-Variable Statistics: <ul style="list-style-type: none"> ➢ STAT → CALC #1: 1-VAR STATS <ul style="list-style-type: none"> ▪ Go down to calculate and press enter 	<ul style="list-style-type: none"> \bar{x} = mean Σx = sum of the elements Σx^2 = sum of the squares of the elements Sx = sample standard deviation σx = population standard deviation n = number of element in the list minX = minimum value Q_1 = first quartile medx = median Q_3 = third quartile maxX = maximum value