	Cornell Notes **Topic: Mean Absolute Deviation: Lesson 9.5**	**Name: _____** **Date: _____** **Period: _____**

Essential Question: How can you use the distances between each data value and the mean of a data set to measure the spread of a data set?

Questions/Main Ideas:	Notes:
Vocabulary	**Mean Absolute Deviation**- an average of how much data values differ from the mean
	Absolute Value- the value of a number that is not positive or negative and is equal distance to zero on a number line
	Finding the Mean Absolute Deviation (MAD)
Steps	**1.) Find the mean of the data. *(**ADD and Divide**)***
	2.) Take the Mean's Absolute Value and SUBTRACT it from each number of the data set.
	3.) Find the Mean of the answers in STEP 2.
Example 1	**Finding the Mean Absolute Deviation**
	You record the numbers of raisins in 8 scoops of cereal. Find and interpret the mean absolute deviation of the data.
	1, 2, 2, 2, 4, 4, 4, 5
Step 1:	**Find the Mean**
	1 + 2 + 2 + 2 + 4 + 4 + 4 + 5 =
Step 2:	**Subtract the ABSOLUTE VALUE of the Mean from each number.**
	3 – 1= 4 – 3 =
	3 – 2 = 4 – 3 =
	3 – 2 = 4 – 3 =
	3 – 2 = 5 – 3 =

Step 3:	**Find the MEAN of all the answers in STEP 2.**
	2 + 1 + 1 + 1 + 1 + 1 + 1 + 2 =
Your Turn!	Find and interpret the mean absolute deviation of the data.
	5, 8, 8, 10, 13, 14, 16, 22
Your Turn!	Model years of used cars on a lot:
	2010, 2002, 2005, 2007, 2001

Summary: **Students should write a summary reflecting the above essential question.**