Acc Algebra I	Unit 8 – Statistics	Day 8.1 - Notes
Name:	Date:	<u>.</u>
Measures of Ce	entral Tendency (Preview	<b>')</b>
"Middle" is a loaded word in mathematics. are three main possibilities: <b>mean</b> , <b>median</b> ,		of a set of data, there
<b>Mean</b> : What we usually consider to be the 'numbers you just added.	'average". Add the numbers up, d	ivide by how many
<b>Median</b> : Put the numbers in order. The medare a pair in the middle, add them and divinumbers.		
<b>Mode</b> : The number that shows up the most. more than 2, we say there aren't any.	If there is a tie, we can have two n	nodes, but if there are
<b>IQR</b> (Inter-Quartile Range): Find the median of the left-hand half of the data. This is the the data. This is the 3 <sup>rd</sup> Quartile (Q <sub>3</sub> ). The IG	$1^{\text{st}}$ Quartile (Q1). Find the median o	
Find the mean, median, mode, and IQR for	the following data:	
1, 3, 18, 24, 7, 3, 12, 6, 22, 9, 3, 10, 12		
Mean: Median:	Mode:	IQR:
Ca	<u>lculator Help</u> :	
(TI-84)	(TI-36X Pro	o)
<ol> <li>Hit the STAT button</li> <li>Select #1 EDIT</li> <li>Enter the data into L<sub>1</sub></li> <li>Hit the STAT button again</li> <li>Go over to the right and select CALC</li> <li>#1: 1-Var Stats</li> <li>Hit Enter three times</li> </ol>	<ol> <li>Hit the DATA butt</li> <li>Enter the data int</li> <li>Hit 2<sup>nd</sup> DATA</li> <li>Select #2: 1-Var</li> </ol>	ron to L <sub>1</sub> Stats
**Scroll down and you will now see	• Mean, number of terms, Min, Q1, M	led, Q₃, Max**
You try: 2 4 1 4 2 2 7 4		

You try: 2, 4, 1, 4, 2, 2, 7, 4

Mean:\_\_\_\_\_ Median:\_\_\_\_\_ Mode:\_\_\_\_\_ IQR:\_\_\_\_

## Mean Absolute Deviation (MAD)

There is a formula for this on the formula sheet. I don't recommend using it. These are the steps you should use to find Mean Absolute Deviation (MAD):

- 1. Find  $\bar{x}$ , which is the mean of the data given.
- 2. Subtract each data point from the mean.
- 3. Take the absolute value of each result from Step 2.
- 4. Find the mean average of your results from Step 3.

Find the Mean Absolute Deviation for the following set of numbers {13, 14, 18, 13, 12, 17, 15, 12, 13, 19, 11, 14, 14, 18, 22}

You try:

Find the Mean Absolute Deviation for the following set of numbers

{68, 70, 75, 73, 74, 72, 65, 80, 71}