_	_					
a	5	Maan	Λhc∩	lııta.	Deviation	
7		ועוכמוו	Δ UNU		ואכעומוואו	

I can summarize data by describing the overall pattern of the data and noticing unusual deviations from the overall pattern.

Notes:

The **Mean Absolute Deviation (MAD)** – is an average of how data values differ from the mean.

- Find thee mean of the data. 1)
- 2) Find the difference of each value in the set from the mean.
- 3) Find the mean of these differences.

Data Set: (Prices of kites)

\$7, \$20, \$9, \$35, \$12, \$15, \$7, \$10, \$20, \$25

(Mean = 16)

Order Data:	7	7	9	10	12	15	20	20	25	35
Difference of	16	16	16	16	16	16	20	20	25	35
Data & Mean:	-7	-7	-9	-10	-12	-15	-16	-16	-16	-16
	9	9	7	6	4	1	4	4	9	19

Mean of Differences (MAD):
$$9+9+7+6+4+1+4+4+9+19=72 \div 10=7.2$$

So the prices differ from the mean by an average of \$7.20.

Find and interpret the MAD of the data. Round answer to the nearest tenth if needed.

1) 25, 28, 20, 22, 32, 28, 35, 34, 30, 36 Mean: _____

Order Data:					
Difference of					
Data & Mean:					

Mean of Differences (MAD): Interpret:

2) 132, 127, 106, 140, 158, 135, 129, 138

Mean:

Order Data:				
Difference of				
Data & Mean:				

Mean of Differences (MAD): Interpret:

(Turn page over for # 3)

3) Choose the set of data from your class's spreadsheet that you used for lesson 9.2.	adsheet that you used for lesson 9.2.
List the letter of your data:	Mean:
Order set of data:	
Order Data:	
Difference of Data & Mean:	
Mean of Differences (MAD):	
Interpret:	