Summary Statistics

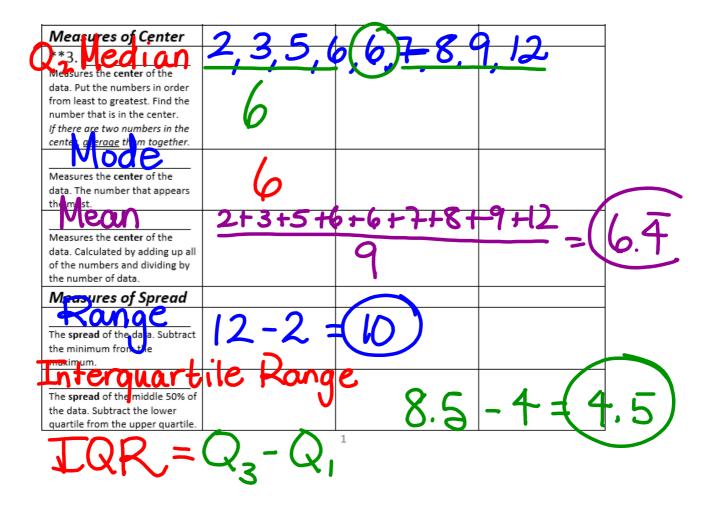
In statistics, we have a set of calculations that we use to find data to evaluate. These calculations are important in helping us assess the data.

Before we can make these calculations, we need to put the data in order from **LEAST TO GREATEST**.

-			•				
	Summary Statistic	9, 5, 7,	7, 12, 5, 6, 6, 8	13, 12, 14, 11, 12, 14,	16, 10	6, 8, 6, 9, 5, 6, 3	
	5 Number Summary	2,3	5.66	7.891	2/		
	1.Min mum						
	The smallest number.			•			
	2 Maximum		7				
	The largest number.		<u> </u>				
Q	14. DWEX QUAY	tile		3+5	8	A /	
0	5. UDDEN QU ON	tile	9,	5.5	9	=4=0	J.
9	Use the median to split the data	0111		2.	2		\sim 1
	into two. Do not include the						
	median in either side of data.			C LQ			_
	Find the median of each half.			0 7 7	14	- 8.5 =	
	The median of the lower half is					- 0 .5 3	こしノ
	the lower quartile (Q1).						~ 3
	The median of the upper half is				d		3
	the upper quartile (Q3).	1					

Warm-up: Tuesday, August 3, 2021

- 1) Pick up Unit 6 Notes/HW packet on back table. ONLY take 1.
- 2) Get out syllabus paperwork. Turn in one sheet to basket on my desk.
- 3) Get out 3-ring binder.
- 4) Find your name on the list beside the calculators and pick yours up, if needed.



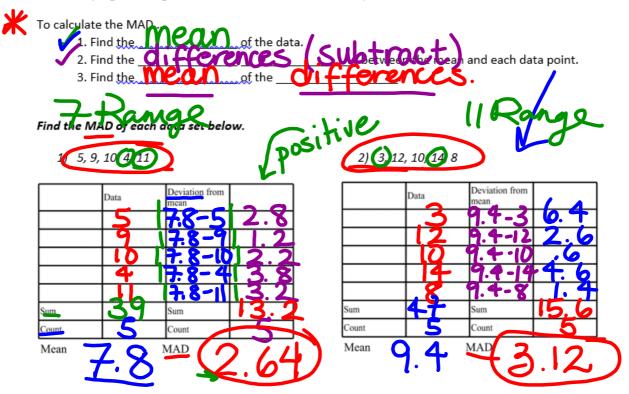
Mean Absolute Deviation

$$|-5|=5$$

The **Mean Absolute Deviation (MAD)** helps us calculate on average how spread out the numbers are from the center (the mean).

Numbers that are close together will have a lower MAD than numbers that are far apart.

It is usually a good thing to have a low MAD - it means that your data is CONSISTENT.



3) 6, 12, 10, 9, 9

	Data	Deviation from mean	Deviation from mean		
Sum		Sum			
Count		Count			

Mean MAD
Which set of numbers seemed the closest together?

4) 8, 10, 6, 9, 7

	Data	Deviation from mean	
Sum		Sum	
Count		Count	

Mean MAD
The farthest apart?

Which set of numbers had the smallest MAD?

The largest MAD?

2

_	SWORK Ita below represents how many texts wer	re sent by 8 freshmar students in one day.	0:30:00
26, 56, Rearra	use the set of data to find all of the following the set of data t	4,35 44,45	52,+56 Q ₃
homed 35, 56, Rearra	oming game. 60, 60, 76, 80, 58, 45, 73, 57 Inge in order: Use the set of data to find all of the follominimum:		ng the fall
3 The fire	Lower Quartile: Interquartile Range (IQR):		
88, 10: Rearra	3, 68, 80, 54, 91, 88, 76 nge in order:		nooi.
a)	Range:	Mean: Median: Upper Quartile:	