

@ Organization and Analysis of Collected Raw Data - 1B @

5, 3, 6, 2, 8, 6, 3, 2, 2, 3, 7, 6, 6, 5, 9, 8, 3, 7, 3, 5, 8, 4,  
5, 6, 5, 8, 9, 8, 7, 6, 5, 4, 6, 3, 2, 7, 9, 8

To convert Raw Collected Data to Useable Information, data must be first organized. To complete a careful and accurate organization of data, a table must be created containing the ranked scores, the tallied frequencies, and the numeric totals.

The ranked scores can be in increasing or decreasing values, the tallied frequencies must be acquired by carefully going through the raw data crossing out each score as it is seen and a mark ( I ) placed in the Tally column. Finally the numeric value of the Tallies should be placed in the Frequency column and summed up.

The Tally and Totals should be done a couple of times to be absolutely correct!  
Determine a Rank from High to Low for Scores and Complete the Table!

Scores	Tally	Frequency	S times F
9	III	3	27
8	IIIIII	6	48
7	IIII	4	28
6	IIIIIII	7	42
5	IIIIII	6	30
4	II	2	8
3	IIIIII	6	18
2	IIII	4	8
	38	38	209

The sum of all the numbers totaled can be done by adding up each number, one at a time. Or, creating a Score times Frequency (Sub-Total) column and adding the sub-totals up to get the entire total of all the numbers added together.

The Score times Frequency (Sub-totals) should be done twice to insure accuracy. Now, once all of this critical and essential organization is done, calculations can be done.

Complete the Calculations for Mean, Mode, Median & Range in the positions below.

Mean =	209/38=5.5	Mode =	6	Median =	(7+7)/2=7	Range =	9-2=7
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The Mean is the Total Value of Numbers divided by the Tally of Numbers.  
The Mode is the Most Frequent Number to be Talled.  
The Median is the physical Middle Number which may or may not be an actual score!  
The Range is the difference between the Highest and Lowest score.

**Provide Students this MMMR activity as MS Word & Use a PC Calculator for a 21<sup>st</sup> Century Activity!**