

@ Organization and Analysis of Collected Raw Data! @

25, 23, 26, 22, 28, 26, 23, 22, 22, 23, 27, 26, 26, 25, 29, 28, 23, 22, 23, 25, 20, 24, 25, 26, 23, 28, 29, 28, 27, 26, 25, 24, 26, 23, 22, 21, 29
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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 frequency column. Finally the numeric value of the frequencies should be placed in the Totals 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	Frequency	Totals	N times F

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

The Number 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 = Mode = Median = Range =

The **Mean** is the Total Value of Numbers divided by the Tally of Numbers.

The **Mode** is the Most Frequent Number to be Tallied.

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.

What if the total of numbers was 38 not 37? What if more than one score had same tally?