

# Desmos Online Graphing Calculator

## Statistics Functions

The following functions require a list of numbers to be added first. Typically, they are added to a table **X1**.

<b>FUNCTION</b>	<b>DEFINITION</b>
<b>Total</b> ( $x_1$ )	Calculates total of list $x_1$
<b>Length</b> ( $x_1$ )	Returns the number of items in the list $x_1$
<b>Mean</b> ( $x_1$ )	Returns the mean (average) of the items in the list $x_1$
<b>Median</b> ( $x_1$ )	Returns the median of the items in the list $x_1$
<b>Min</b> ( $x_1$ )	Returns the minimum of the items in the list $x_1$
<b>Max</b> ( $x_1$ )	Returns the maximum of the items in the list $x_1$
<b>Quartile</b> ( $x_1, p$ )	Returns the value of the quartile, where $p$ is the quartile number (0, 1, 2, 3, 4)
<b>Mad</b> ( $x_1$ )	Returns the Mean Absolute Deviation of the items in the list $x_1$
<b>Stdev</b> ( $x_1$ )	Returns the Standard Deviation of the items in the list $x_1$
<b>Stdevp</b> ( $x_1$ )	Returns the Population Standard Deviation of the items in the list $x_1$
<b>Var</b> ( $x_1$ )	Returns the Variance of the items in the list $x_1$
<b>Varp</b> ( $x_1$ )	Returns the Population Variance of the items in the list $x_1$
<b>nCr</b> ( $n, r$ )	Number of Combinations, where $n$ is the total number of items, and $r$ is the number in the combination.
<b>nPr</b> ( $n, r$ )	Number of Permutations, where $n$ is the total number of items, and $r$ is the number in the permutation.
<b>n!</b>	Returns the value of $n$ factorial