

# CALCULATING MEASURES OF CENTRAL TENDENCY

Using Microsoft Excel 2007

## Calculating Statistical Data

You are going to find the:

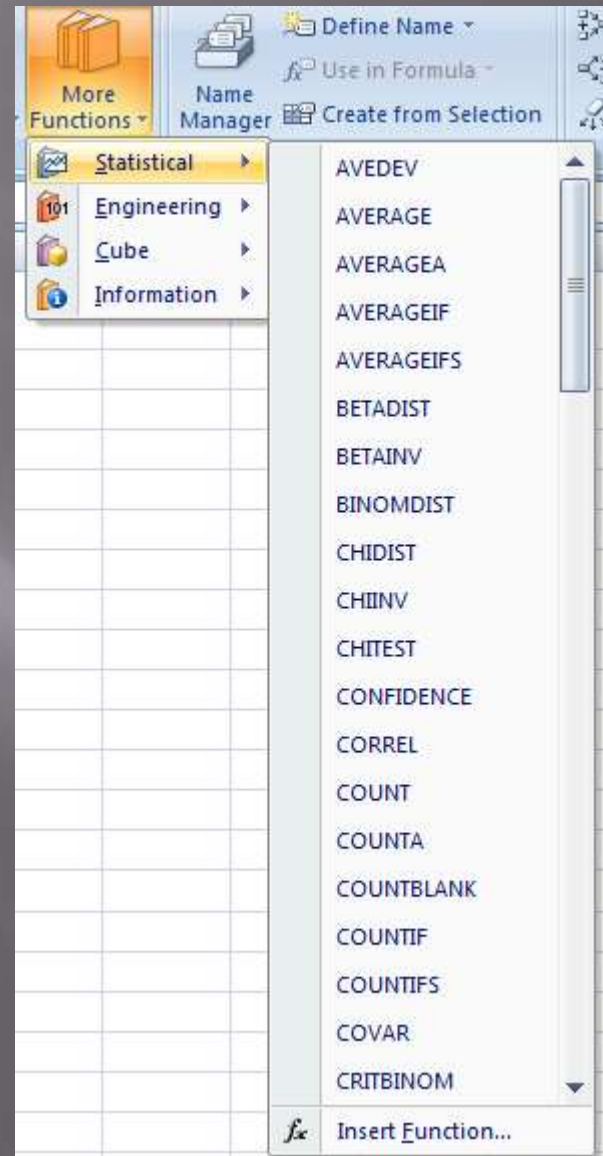
- Mean (average)
- Median
- Mode
- Minimum Value
- Maximum Value
- Lower Quartile
- Upper Quartile

You should find these value for Hits, Runs and RBIs.

	A	B	C	D
1	<b>Player</b>	<b>Hits</b>	<b>Runs</b>	<b>RBIs</b>
2	Jeter	36	19	22
3	Cano	38	23	21
4	Texiera	19	14	15
5	Rodriguez	27	15	18
6	Swisher	29	16	20
7	Gardner	29	23	9
8	Granderson	18	10	7
9	Johnson	12	12	8
10	Posada	20	12	12
11	Cervelli	15	4	7
12	Thames	13	4	4
13	Winn	5	5	4
14	Pena	2	4	4
15				
16	Mean:			
17	Median:			
18	Mode:			
19	Min:			
20	Max:			
21	Lower Quartile			
22	Upper Quartile			

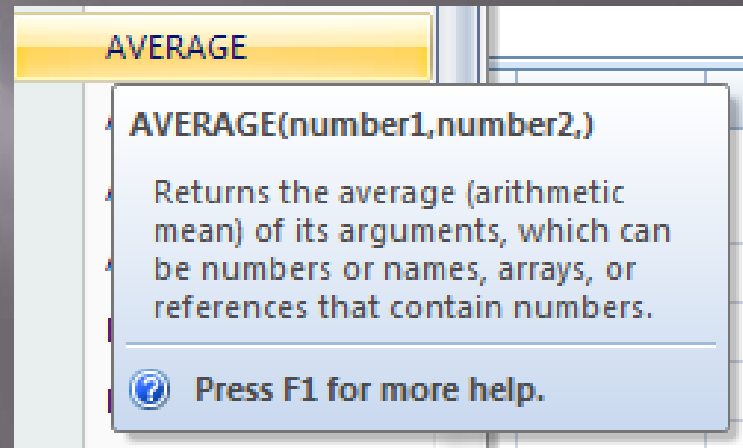
## Remember:

- Go to your formula tab
- More Functions
- Statistical



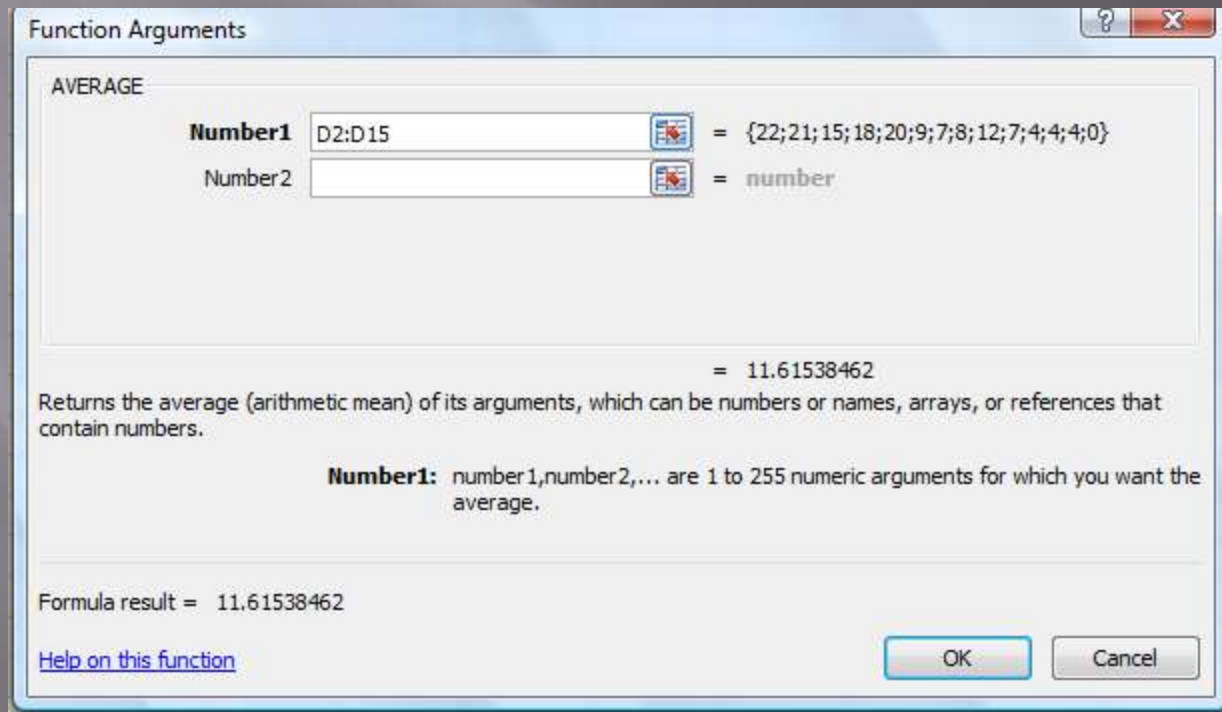
## Finding the correct Formula:

If you hover over each  
of the formulas it will  
tell you what the  
formula calculates.



You can also get help in the formula box when trying to figure out how to actually calculate the data.

=AVERAGE(D2:D15)



The image shows a 'Function Arguments' dialog box for the AVERAGE function. The title bar reads 'Function Arguments' with a question mark and a close button. The main area is titled 'AVERAGE'. It contains two argument fields: 'Number1' with the value 'D2:D15' and a list icon, followed by '= {22;21;15;18;20;9;7;8;12;7;4;4;0}'. Below it is 'Number2' with an empty field and a list icon, followed by '= number'. At the bottom of the argument list, it shows '= 11.61538462'. Below the arguments, there is a descriptive text: 'Returns the average (arithmetic mean) of its arguments, which can be numbers or names, arrays, or references that contain numbers.' and a definition for 'Number1': 'Number1: number1,number2,... are 1 to 255 numeric arguments for which you want the average.' At the bottom left, it says 'Formula result = 11.61538462' and there is a blue link 'Help on this function'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Function Arguments

AVERAGE

Number1 D2:D15 = {22;21;15;18;20;9;7;8;12;7;4;4;0}

Number2 = number

= 11.61538462

Returns the average (arithmetic mean) of its arguments, which can be numbers or names, arrays, or references that contain numbers.

**Number1:** number1,number2,... are 1 to 255 numeric arguments for which you want the average.

Formula result = 11.61538462

[Help on this function](#)

OK Cancel