

Good Calculators

ANOVA Calculator: One-Way Analysis of Variance Calculator

1: Copy and paste in your data. Consider "Group 1," "Group 2," "Group 3," etc. your three (or four) categories.

Be sure to delete any values that are initially in the boxes before you copy and paste in your data.

Although the values that are initially in the boxes show values separated by commas, you can also copy and paste in columns, as illustrated in this screenshot.

Group 1

3277
3620
5107
7043
5946
5731
5522
6645

Group 2

5993
4768
5305
4340
2996
4596
6313
6657

Group 3

5913
5173
4053
4093
5366
3672
3930
6959

+ Add Group - Delete Group

Calculate

2: Click "Calculate."

F-statistic value = 0.38039

This is your **F-ratio**.

P-value = 0.68426

This is your **p-value**.

These are the **Ns** of your categories.

These are the **Means** of your categories.

These are the **Standard Deviations** of your categories.

Data Summary				
Groups	N	Mean	Std. Dev.	Std. Error
Group 1	50	5052.94	1162.4282	164.3922
Group 2	50	5210.72	1038.0794	146.8066
Group 3	50	5048.42	969.4305	137.0982

Source	Degrees of Freedom	SS	MS	F-Stat	P-Value
	DF				
Between Groups	2	854270.8133	427135.4067	0.3804	0.6843
Within Groups	147	165063539.1043	1122881.2184		
Total:	149				

This is the variance in your dependent variable that is **explained** by your independent variable.

This is the variance in your dependent variable that is **unexplained** by your independent variable.