

Social Science Statistics

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

Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5

2: Click "Calculate" (not shown here).

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

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

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

	Treatments					
	1	2	3	4	5	Total
N	50	50	50			150
$\sum X$	252647	260536	252421			765604
Mean	5052.94	5210.72	5048.42			5104.027
$\sum X^2$	1342820859	1410382980	1320377203			4073581042
Std.Dev.	1162.4282	1038.0794	969.4305			1055.2452

Source	SS	df	MS	F
Between-treatments	854270.8133	2	427135.4067	F = 0.38039
Within-treatments	165063539.08	147	1122881.2182	
Total	165917809.8933	149		

This sentence contains your **F-ratio** and **p-value**.

The *f*-ratio value is 0.38039. The *p*-value is .684264. The result is *not* significant at $p < .05$.