

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

Social Science Statistics

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

Kruskal-Wallis Test Calculator

Explanation of results

The output of this calculator is pretty straightforward. The values of the Kruskal-Wallis K statistic and p appear at the bottom of the page. If the text is blue, your result is significant; if it's red, it's not. The only thing that might catch you out is the way that we've rounded the data. The data you see below, which provide details about the calculation, have been rounded. However, we did not round when actually calculating the values of K and p . This means that if you try to calculate these values on the basis of the summary data provided here, you're likely going to end up with a slightly different - and less accurate - result.

Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5
93.3	91.1	95.6		
88.9	88.9	83.3		
90	90	88.9		
87.8	92.2	91.1		
87.8	91.1	91.1		
94.4	91.1	95.6		
92.2	93.3	91.1		
92.2	87.8	93.3		
92.2	92.2	94.4		
78.9	83.3	77.8		
93.3	93.3	93.3		
87.8	93.3	88.9		
94.4	92.2	94.4		
94.4	90	95.6		
88.9	88.9	83.3		
88.89	87.78	86.66		
93.33	94.44	93.33		
91.11	92.22	94.44		
58.88	65.56	68.89		

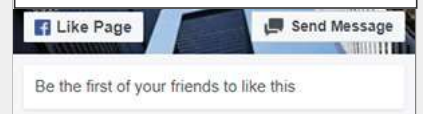


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Ranks T1	Ranks T2	Ranks T3
48	37	50
9	11.5	7
16.5	16.5	15
41	23	44
27	13	21
18	14	23
42.5	27	29
31	25	33.5
33.5	23	46
5	4	6
39.5	37	51
27	33.5	42.5
39.5	37	49
47	33.5	45
10	11.5	8
19.5	30	19.5
57	55	56
52.5	52.5	54
1	3	2
T: 564.5	T: 487	T: 601.5

The H statistic is 1.3045 (2, $N = 57$).

The p -value is .52087. The result is *not* significant at $p < .05$.

Reset

Calculation Summary

$$H = (12/(N(N+1))) * (\sum T^2/n) - 3(N+1)$$

$$H = 0.004 * 48296.395 - 174$$

$$H = 1.3045$$