

Wilcoxon Signed-Rank Test Calculator

BY ZACH MAY 4, 2020

The **Wilcoxon Signed-Rank Test** is the non-parametric version of the **paired t-test**. It is used to test whether or not there is a significant difference between two population means.

To perform a Wilcoxon Signed-Rank Test, simply fill in the data values for two samples below and then click the "Calculate" button.

SEARCH



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Sample 1

14, 17, 12, 15, 15, 9, 12, 13, 13, 15, 19, 17,
14, 14, 16

Sample 2

15, 17, 15, 15, 17, 14, 9, 14, 11, 16, 18, 20,
20, 10, 17

CALCULATE

W test statistic = 29.5

Number of non-tied pairs (n) = 13

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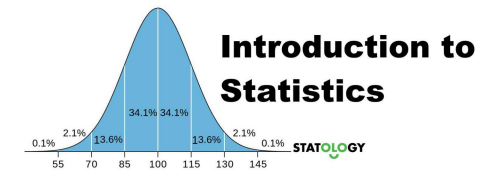


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Refer to the critical values table below to decide whether or not the test result is statistically significant based on n and your chosen alpha level.

If the test statistic W is less than the value found in the critical values table below, then the test result is statistically significant.



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	Alpha value				
n	0.005	0.01	0.025	0.05	0.10
5	-	-	-	-	0
6	-	-	-	0	2
7	-	-	0	2	3
8	-	0	2	3	5
9	0	1	3	5	8
10	1	3	5	8	10
11	3	5	8	10	13
12	5	7	10	13	17
13	7	9	13	17	21
14	9	12	17	21	25
15	12	15	20	25	30
16	15	19	25	29	35
17	19	23	29	34	41
18	23	27	34	40	47
19	27	32	39	46	53
20	32	37	45	52	60
21	37	42	51	58	67
22	42	48	57	65	75
23	48	54	64	73	83
24	54	61	72	81	91
25	60	68	79	89	100
26	67	75	87	98	110
27	74	83	96	107	119
28	82	91	105	116	130
29	90	100	114	126	140
30	98	109	124	137	151



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