

Q8

Participants	Before Therapy	After Therapy	Difference	Abs. Difference	Rank	with tied Rank	Signed Rank
1	10	7	-3	3	9	9.5	-9.5
2	8	6	-2	2	4	6	-6
3	12	10	-2	2	5	6	-6
4	15	12	-3	3	10	9.5	-9.5
5	6	5	-1	1	1	2	-2
6	9	8	-1	1	2	2	-2
7	11	9	-2	2	6	6	-6
8	7	6	-1	1	3	2	-2
9	14	12	-2	2	7	6	-6
10	10	8	-2	2	8	6	-6

Null Hypothesis (H_0): Therapy have no effect

Alternate Hypothesis (H_1): Therapy have significant effect.

Let $\alpha = 0.05$ @ two-tailed test

$$W_+ = 0$$

$$W_- = 55$$

$$\therefore W_{stat} = 0$$

$$W_{critical} = 8$$

Since, $W_{stat} < W_{critical}$

we reject the Null Hypothesis

\therefore Therapy have significant effect on anxiety levels.