ITERATIONS_LEVELS2.CSV

One-way ANOVA: responses versus levels

Method

Null hypothesis	All means are equal
Alternative hypothesis	Not all means are equal
Significance level	α = 0.05

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
levels	5	10, 15, 20, 25, 30

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
levels	4	16.61	4.153	0.11	0.978
Error	55	2032.32	36.951		
Total	59	2048.93			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
6.07875	0.81%	0.00%	0.00%

Means

levels	N	Mean	StDev	95% CI
10	12	1.163	2.800	(-2.354, 4.680)
15	12	1.40	4.28	(-2.11, 4.92)
20	12	1.86	5.72	(-1.66, 5.38)
25	12	2.22	7.18	(-1.30, 5.73)
30	12	2.61	8.63	(-0.91, 6.13)

Pooled StDev = 6.07875

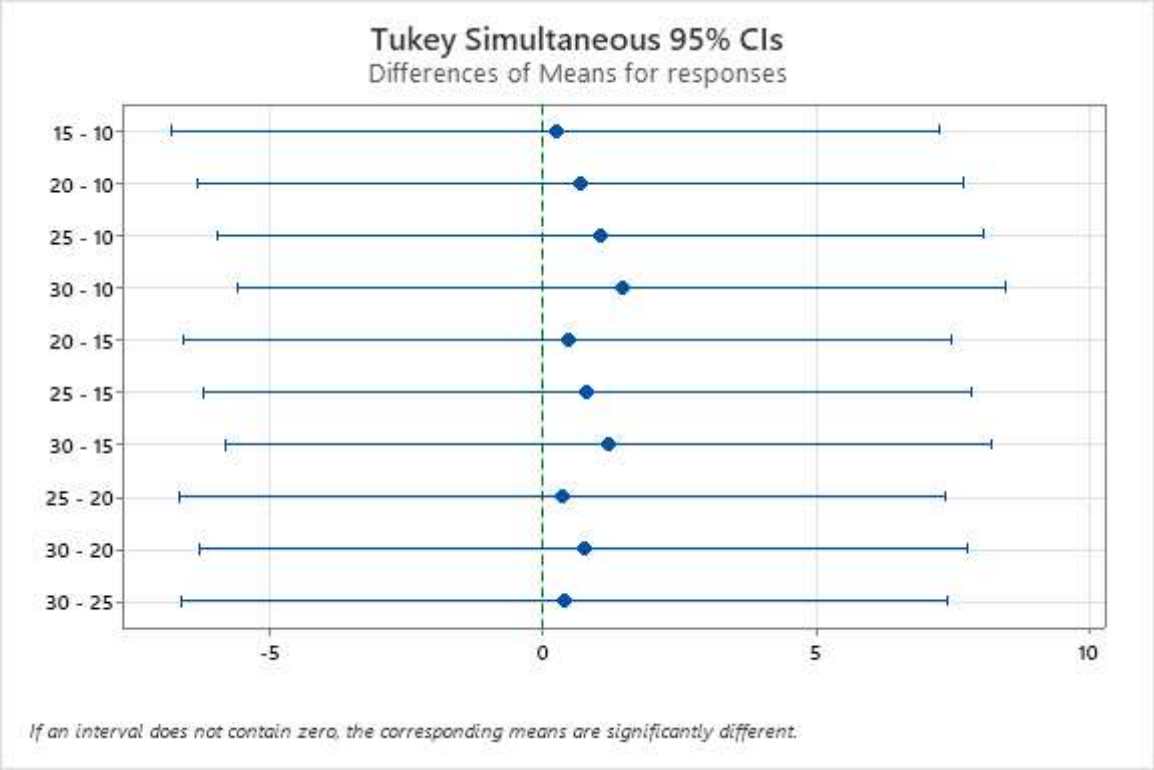
Tukey Pairwise Comparisons

Grouping Information Using the Tukey Method and 95% Confidence

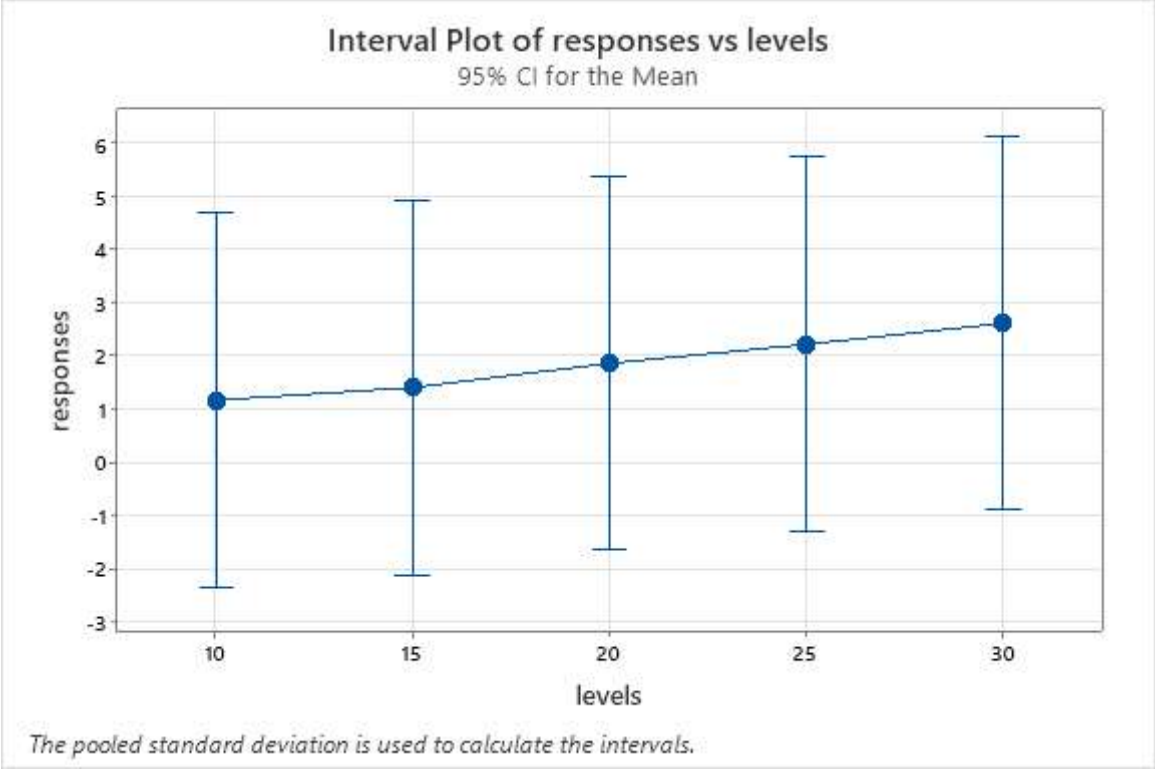
levels	N	Mean	Grouping
30	12	2.61	A
25	12	2.22	A
20	12	1.86	A

15	12	1.40	A
10	12	1.163	A

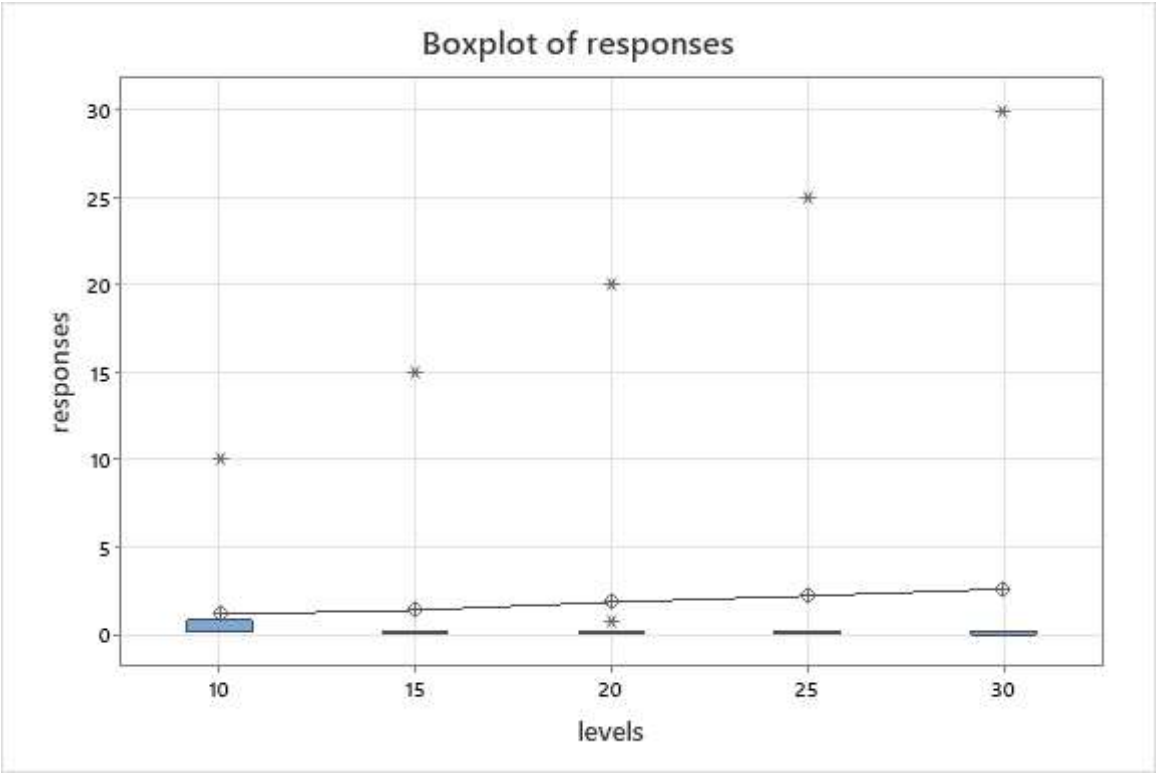
Means that do not share a letter are significantly different.



If an interval does not contain zero, the corresponding means are significantly different.



The pooled standard deviation is used to calculate the intervals.


Boxplot of responses
responses
levels
30
25
20
15
10
5
0
10
15
20
25
30