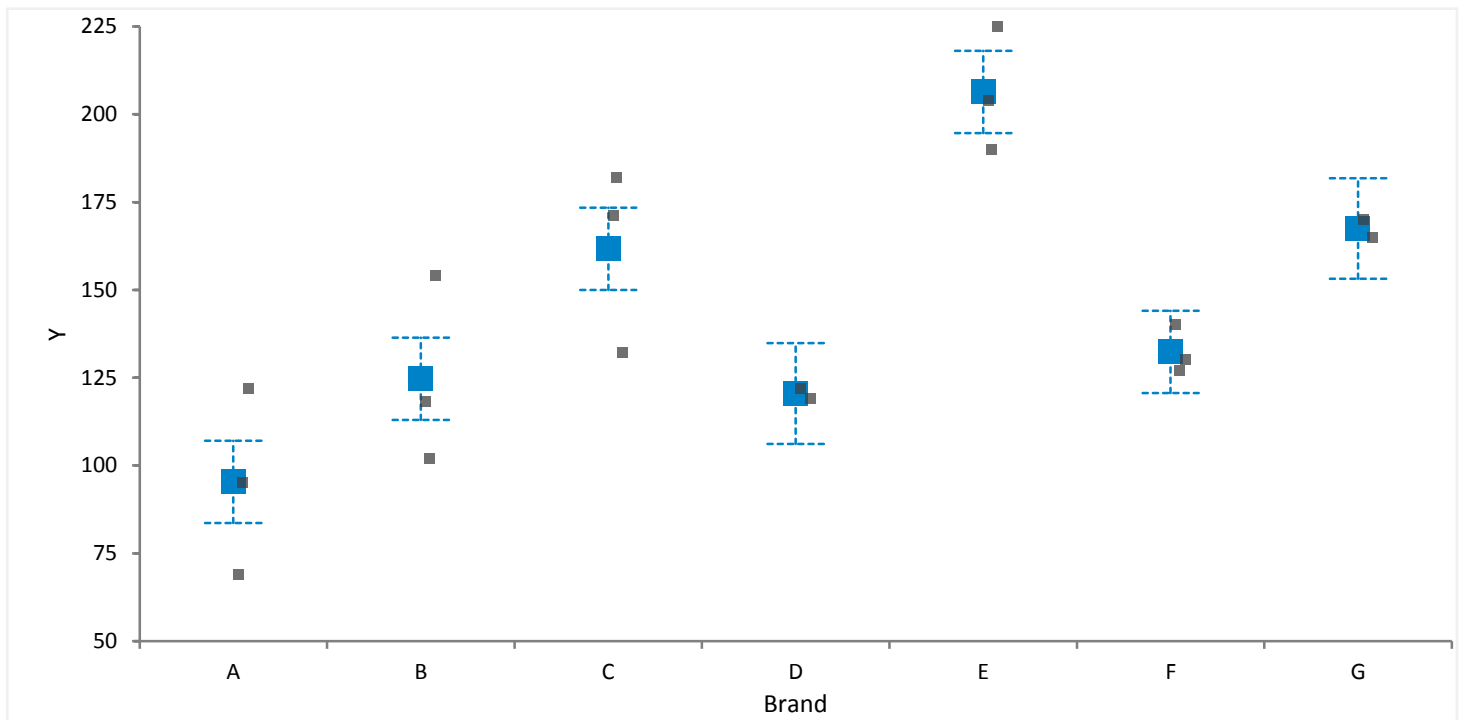


Compare Groups: Y by Brand

Data A1:B22

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Descriptives



N | 19

Y by Brand	N	Mean	Mean SE (based on pooled SD)	Variance	SD
A	3	95.3	11.71	702.3	26.5
B	3	124.7	11.71	709.3	26.6
C	3	161.7	11.71	690.3	26.3
D	2	120.5	14.34	4.5	2.1
E	3	206.3	11.71	310.3	17.6
F	3	132.3	11.71	46.3	6.8
G	2	167.5	14.34	12.5	3.5
Pooled	19			411.2	20.3

Dispersion

Levene test

F statistic	1.80
Numerator DF	6
Denominator DF	12
p-value	0.1814 ¹

H0: $\sigma^2_1 = \sigma^2_2 = \sigma^2 \dots$

The variance of the populations are all equal.

H1: $\sigma^2_i \neq \sigma^2_j$ for at least one i,j

The variance of the populations are not all equal.

¹ Do not reject the null hypothesis at the 5% significance level.

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Location

ANOVA

Effect	SS	DF	MS	F	p-value
Model	23436.6	6	3906.1	9.50	0.0006 ¹
Error	4934.3	12	411.2		
Total	28370.9	18	1576.2		

H0: $\mu_1 = \mu_2 = \mu \dots$

The mean of the populations are all equal.

H1: $\mu_i \neq \mu_j$ for at least one i,j

The mean of the populations are not all equal.

¹ Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.

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Multiple Comparisons

Tukey-Kramer all pairs comparisons

Contrast	Mean difference	Simultaneous 95% CI	0	p-value
E - A	111.0	53.1 to 168.9		0.0003 ¹
E - D	85.8	21.0 to 150.6		0.0076 ¹
E - B	81.7	23.7 to 139.6		0.0047 ¹
E - F	74.0	16.1 to 131.9		0.0100 ¹
G - A	72.2	7.4 to 137.0		0.0258 ¹
C - A	66.3	8.4 to 124.3		0.0215 ¹
G - D	47.0	-24.0 to 118.0		0.3096 ²
E - C	44.7	-13.3 to 102.6		0.1799 ²
G - B	42.8	-22.0 to 107.6		0.3112 ²
C - D	41.2	-23.6 to 106.0		0.3504 ²
E - G	38.8	-26.0 to 103.6		0.4105 ²
F - A	37.0	-20.9 to 94.9		0.3456 ²
C - B	37.0	-20.9 to 94.9		0.3456 ²
G - F	35.2	-29.6 to 100.0		0.5152 ²
B - A	29.3	-28.6 to 87.3		0.5874 ²
C - F	29.3	-28.6 to 87.3		0.5874 ²
D - A	25.2	-39.6 to 90.0		0.8121 ²
F - D	11.8	-53.0 to 76.6		0.9938 ²
F - B	7.7	-50.3 to 65.6		0.9989 ²
G - C	5.8	-59.0 to 70.6		0.9999 ²
B - D	4.2	-60.6 to 69.0		1.0000 ²

H0: $\theta = 0$

The difference between the means of the populations is equal to 0.

H1: $\theta \neq 0$

The difference between the means of the populations is not equal to 0.

¹ Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.

² Do not reject the null hypothesis at the 5% significance level.

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