

PRE TEST SCORE ANALYSIS

Table Test of Normality

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Control	30	53.1667	6.49713	40.00	65.00
Experimental	30	52.0000	8.36660	40.00	70.00

One-Sample Kolmogorov-Smirnov Test

		control	Experiment
N		30	30
Normal Parameters ^a	Mean	53.1667	52.0000
	Std. Deviation	6.49713	8.36660
Most Extreme Differences	Absolute	.187	.161
	Positive	.187	.161
	Negative	-.154	-.131
Kolmogorov-Smirnov Z		1.024	.883
Asymp. Sig. (2-tailed)		.245	.417

a. Test distribution is Normal.

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
676	5	23	646

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	252.083	6	42.014	.994	.453
Within Groups	972.083	23	42.264		

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Total	1224.167	29			
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Sig 0.65 > 0.05

Independent t-test result

Group Statistics

	Group	N	Mean	Std. Deviation	Std. Error Mean
Control	1	30	53.1667	6.49713	1.18621
Experimental	2	30	52.0000	8.36660	1.52753

independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means						
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper
Equal variances assumed	1.976	.165	.603	58	.549	1.16667	1.93402	-2.70469	5.03802
Equal variances not assumed			.603	54.649	.549	1.16667	1.93402	-2.70975	5.04308

POST TEST SCORE ANALYSIS

Table Test of Normality

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum

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control	30	54.3333	6.66092	40.00	65.00
Experiment	30	65.3333	6.68675	50.00	80.00

One-Sample Kolmogorov-Smirnov Test

		control	experiment
N		30	30
Normal Parameters ^a	Mean	54.3333	65.3333
	Std. Deviation	6.66092	6.68675
Most Extreme Differences	Absolute	.209	.187
	Positive	.209	.187
	Negative	-.203	-.146
Kolmogorov-Smirnov Z		1.145	1.022
Asymp. Sig. (2-tailed)		.145	.247
a. Test distribution is Normal.			

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
.192	3	23	.901

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	147.917	6	24.653	.498	.803

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Within Groups	1138.750	23	49.511		
Total	1286.667	29			

(0.90 > 0.05)

Independent t-test result

Group Statistics

	Group	N	Mean	Std. Deviation	Std. Error Mean
Control	1	30	54.3333	6.66092	1.21611
Experiment	2	30	65.3333	6.68675	1.22083

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means						
	F	Sig.	T	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper
Equal variances assumed	.381	.539	-6.384	58	.000	-11.00000	1.72318	-14.44932	-7.55068
Equal variances not assumed			-6.384	57.999	.000	-11.00000	1.72318	-14.44932	-7.55068

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Dependent t-test of experimental group

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Control	54.3333	30	6.66092	1.21611
Experimental	65.3333	30	6.68675	1.22083

Paired Samples Correlations

	N	Correlation	Sig.
Control & Experimental	30	.218	.247

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Control - Eperimental	-1.10000	8.34597	1.52376	-14.11644	-7.88356	-7.219	29	.000

Calculation of Effect Size

$$r = \frac{t^2}{t^2 + df}$$

$$r = \frac{-7.219^2}{-7.219^2 + 28}$$

$$r = \frac{52.11}{80.11}$$

$$r = 0.65$$

$$r = 0.81$$