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EDG500

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SPSS Chapter 14

Group Statistics

	Experimental & Control Groups	N	Mean	Std. Deviation	Std. Error Mean
Attitude Toward Drinking & Driving	Experimental Group	7	10.5714	1.61835	.61168
	Control Group	5	13.8000	2.28035	1.01980

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Attitude Toward Drinking & Driving	Equal variances assumed	.071	.795	-2.886	10	.016	-3.22857	1.11889	-5.72162	-.73553
	Equal variances not assumed			-2.715	6.808	.031	-3.22857	1.18918	-6.05666	-.40048

Figure 14.11. SPSS Statistics output for independent-samples *t* test.

Group Statistics

	Experimental & Control Groups	N	Mean	Std. Deviation	Std. Error Mean
Calculus Final Score	Experimental Group	5	30.6000	4.87852	2.18174
	Control Group	5	30.8000	3.56371	1.59374

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Calculus Final Score	Equal variances assumed	.675	.435	-.074	8	.943	-.20000	2.70185	-6.43048	6.03048
	Equal variances not assumed			-.074	7.323	.943	-.20000	2.70185	-6.53222	6.13222

Figure 14.12. SPSS Statistics output for independent-samples *t* test comparing final test scores of experimental and control groups.

A) The mean for the experimental group is 30.60.
B) The mean for the control group is 30.80.
C) The value of *t* is -.074.
D) The associated probability is .943.
E) Because .943 is greater than .05, the difference between the experimental group's mean and the control group's mean is not statistically significant.
F) At the end of the experiment, the experimental group (m = 30.60, sd = 4.88) had final scores similar to the control group (m = 30.80, sd = 3.56). The difference between the two means is not statistically significant at the .05 level (t = - .074, df = 8).