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 EDG 500
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SPSS Chapter 14

Group Statistics											
		Experimental and Control groups	N	Mean	Std. Deviation	Std. Error Mean					
Attitude toward Drinking and 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	Significance		Mean Difference	Std. Error Difference	Lower	Upper
						One-Sided p	Two-Sided p				
Attitude toward Drinking and Driving	Equal variances assumed	.071	.795	-2.886	10	.008	.016	-3.22857	1.11889	-5.72162	-.73553
	Equal variances not assumed			-2.715	6.808	.015	.031	-3.22857	1.18918	-6.05666	-.40048

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

Exercise for chapter 14

Group Statistics											
		experimental and Control group	N	Mean	Std. Deviation	Std. Error Mean					
calculus final Examination scores	Experiment Group		5	30.6000	4.87852	2.18174					
	2.00		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	Significance		Mean Difference	Std. Error Difference	Lower	Upper
						One-Sided p	Two-Sided p				
calculus final Examination scores	Equal variances assumed	.675	.435	-.074	8	.471	.943	-.20000	2.70185	-6.43048	6.03048
	Equal variances not assumed			-.074	7.323	.471	.943	-.20000	2.70185	-6.53222	6.13222

Figure 14. 13. SPSS statistics output for independent-sample t test of calculus examination scores for experimental and control groups.

- The mean of experimental group is 30.60.
- The mean for control group is 30.30.
- The value of t is -.074.
- The associated probability is .943.
- Because the associated probability is .943. is greater than .05, the difference between mean is statistically insignificant at the .05 level.

- f. At the end of the experiment, the experimental group scored on the calculus final ($m = 30.60$, $sd = 4.88$) was Less than the control group ($m = 30.80$, $sd = 3.56$). The difference between the two means is statistically insignificant at the .05 level ($t = -.074$, $sd = 8$).