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 EDG 500
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Ch. 14 output

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							
		F	Sig.	t	df	Significance One-Sided p	Significance Two-Sided p	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
										Lower	Upper
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

Independent Samples Effect Sizes

		Standardize r ^a	Point Estimate	95% Confidence Interval	
				Lower	Upper
Attitude Toward Drinking and Driving	Cohen's d	1.91087	-1.690	-3.020	-.300
	Hedges' correction	2.07085	-1.559	-2.787	-.277
	Glass's delta	2.28035	-1.416	-2.856	.118

- a. The denominator used in estimating the effect sizes.
Cohen's d uses the pooled standard deviation.
Hedges' correction uses the pooled standard deviation, plus a correction factor.
Glass's delta uses the sample standard deviation of the control group.

Exercise 14

Group Statistics

Experimental and Control Group		N	Mean	Std. Deviation	Std. Error Mean
Calculus Final Exam Scores	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	Significance One-Sided p	Two-Sided p	Mean Difference	Std. Error Difference	Lower	Upper
Calculus Final Exam 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

Independent Samples Effect Sizes

Standardize r^a	Point Estimate	95% Confidence Interval	
		Lower	Upper

Calculus Final Exam Scores	Cohen's d	4.27200	-.047	-1.285	1.194
	Hedges' correction	4.73245	-.042	-1.160	1.078
	Glass's delta	3.56371	-.056	-1.293	1.187

a. The denominator used in estimating the effect sizes.

Cohen's d uses the pooled standard deviation.

Hedges' correction uses the pooled standard deviation, plus a correction factor.

Glass's delta uses the sample standard deviation of the control group.

- 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 -0.07.
- d. The associated probability is 0.94.
- e. The difference between the means is not statistically significant.
- f. The experimental group had more less favorable scores on the final exam ($m = 30.60$, $sd = 4.88$) than the control group ($m = 30.80$, $sd = 3.56$). The difference between the two means is not statistically significant at the 0.05 level ($t = -0.07$, $df = 8$).