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 EDG 500
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Ch. 13

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	11.5556	9	2.29734	.76578
	Posttest	9.6667	9	2.23607	.74536

Paired Samples Correlations

		N	Correlation	Significance	
				One-Sided p	Two-Sided p
Pair 1	Pretest & Posttest	9	.527	.072	.145

Paired Samples Test

		Paired Differences					Significance			
		Mean	Std. Deviation	Std. Error	95% Confidence Interval of the Difference		t	df	One-Sided p	Two-Sided p
					Lower	Upper				
Pair 1	Pretest - Posttest	1.88889	2.20479	.73493	.19414	3.58364	2.570	8	.017	.033

Paired Samples Effect Sizes

		Standardize	Point	95% Confidence Interval	
		r^a	Estimate	Lower	Upper
Pair 1	Pretest - Posttest	Cohen's d	2.20479	.857	1.611
		Hedges' correction	2.44243	.773	1.454

a. The denominator used in estimating the effect sizes.

Cohen's d uses the sample standard deviation of the mean difference.

Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor.

Exercise 13

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	pretest	32.8000	10	4.61399	1.45907
	posttest	34.0000	10	5.05525	1.59861

Paired Samples Correlations

		N	Correlation	One-Sided p	Two-Sided p
Pair 1	pretest & posttest	10	.843	.001	.002

Paired Samples Test

		Paired Differences						Significance		
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	One-Sided p	Two-Sided p
					Lower	Upper				
Pair 1	pretest - posttest	-1.20000	2.74064	.86667	-3.16054	.76054	-1.385	9	.100	.200

Paired Samples Effect Sizes

		Standardize r^a	Point Estimate	95% Confidence Interval	
				Lower	Upper
Pair 1	pretest - posttest	Cohen's d	2.74064	-1.078	.224
		Hedges' correction	2.99892	-.985	.205

a. The denominator used in estimating the effect sizes.

Cohen's d uses the sample standard deviation of the mean difference.

Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor.

- a. The mean for the pretest is 32.80.
- b. The mean for the posttest is 34.00.
- c. The value of t 1.39.
- d. The probability is 0.20.
- e. No, the difference is not statistically significant at the 0.05 level.
- f. The mean self-esteem score increased slightly from 32.80 ($sd = 4.61$) on the pretest to 34.00 ($sd = 1.59$) on the posttest. The difference between the two means is not statistically significant at the 0.05 level ($t = 1.39$, $df = 9$).