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SPSS Chapter 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 | Significance Two-Sided p |
|---|---|---|---|---|---|
| Pair 1 | Pretest & Posttest | 9 | .527 | .072 | .145 |

**Paired Samples Test**

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

*Figure 13.7.* SPSS Statistics output for the paired- samples *t* test.

Exercise for chapter 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 | Significance One-Sided p | Significance Two-Sided p |
|---|---|---|---|---|---|
| Pair 1 | Pretest & Posttest | 10 | .843 | .001 | .002 |

**Paired Samples Test**

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

A. The mean for the Pretest is 32.80.

B. The mean for the posttest is 34.00.

C. The Value of *t* is -1.385

D. The associated probability is .20.

E. Because .20 is greater than .05, the difference between means is *Not* Statistically significant at the .05 level.

F. The average of self-esteem score increased only slightly, from 32.80 (*sd*= 4.61) on the pretest to 34.00 (*sd*= 5.06) on the posttest. The difference between the two means is not statistically significant at the .05 level (t = -1.385, *df* = 9).