GET

FILE='C:\Users\stefa\OneDrive - Careered - CTU\2024\RES814\D ata Files SPSS\Week 1\schools.sav'.

ALTER TYPE ALL(A=AMIN).

# Alter Type

C:\Users\stefa\OneDrive - Careered - CTU\2024\RES814\Data File s SPSS\Week 1\schools.sav

**Altered Types**

|  |  |  |
| --- | --- | --- |
| School name | A60 | **AMIN** |

DATASET NAME DataSet1 WINDOW=FRONT.

T-TEST PAIRS=act93 WITH act94 (PAIRED)

/ES DISPLAY(TRUE) STANDARDIZER(SD)

/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

# T-Test

[DataSet1] C:\Users\stefa\OneDrive - Careered - CTU\2024\RES81 4\Data Files SPSS\Week 1\schools.sav

**Paired Samples Statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | average ACT score 1993 | **15.986** | **64** | **1.8401** | **.2300** |
| average ACT score 1994 | **15.861** | **64** | **1.8351** | **.2294** |

**Paired Samples Correlations**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | N | Correlation | Sig. |
| Pair 1 | average ACT score 1993 & average ACT score 1994 | **64** | **.972** | **.000** |

**Paired Samples Test**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Paired Differences | | | | | t |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | average ACT score 1993 - average ACT score 1994 | **.1250** | **.4342** | **.0543** | **.0165** | **.2335** | **2.303** |

**Paired Samples Test**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | df | Sig. (2-tailed) |
| Pair 1 | average ACT score 1993 - average ACT score 1994 | **63** | **.025** |

**Paired Samples Effect Sizes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | average ACT score 1993 - average ACT score 1994 | Cohen's d | **.4342** | **.288** | **.037** | **.537** |
| Hedges' correction | **.4369** | **.286** | **.036** | **.534** |

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.

GET

FILE='C:\Users\stefa\OneDrive - Careered - CTU\2024\RES814\D ata Files SPSS\Week 1\electric.sav'.

DATASET NAME DataSet2 WINDOW=FRONT. T-TEST GROUPS=vital10(0 1)

/MISSING=ANALYSIS

/VARIABLES=chol58

/ES DISPLAY(TRUE)

/CRITERIA=CI(.95).

# T-Test

[DataSet2] C:\Users\stefa\OneDrive - Careered - CTU\2024\RES81 4\Data Files SPSS\Week 1\electric.sav

**Group Statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Status at Ten Years | | N | Mean | Std. Deviation | Std. Error Mean |
| Serum Cholesterol 58 -- Mg per DL | Alive | **179** | **264.87** | **52.981** | **3.960** |
| Dead | **61** | **261.80** | **51.807** | **6.633** |

**Independent Samples Test**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | |
| F | Sig. | t | df | Sig. (2-tailed) |
| Serum Cholesterol 58 -- Mg per DL | Equal variances assumed | **.054** | **.817** | **.392** | **238** | **.695** |
| Equal variances not assumed |  |  | **.396** | **105.858** | **.693** |

**Independent Samples Test**

t-test for Equality of Means

95% Confidence Interval of the

Mean Difference

Std. Error Difference

Difference

Lower

Upper

Serum Cholesterol 58 -- Mg per DL

**18.379**

**-12.254**

**7.725**

**3.063**

Equal variances not assumed

**18.451**

**-12.325**

**7.811**

**3.063**

Equal variances assumed

**Independent Samples Effect Sizes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Serum Cholesterol 58 -- Mg per DL | Cohen's d | **52.687** | **.058** | **-.233** | **.349** |
| Hedges' correction | **52.854** | **.058** | **-.232** | **.348** |
| Glass's delta | **51.807** | **.059** | **-.232** | **.350** |

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.

GET

FILE='C:\Users\stefa\OneDrive - Careered - CTU\2024\RES814\D ata Files SPSS\Week 1\gss.sav'.

DATASET NAME DataSet3 WINDOW=FRONT.

ONEWAY rincdol BY ndegree

/MISSING ANALYSIS

/CRITERIA=CILEVEL(0.95)

/POSTHOC=BONFERRONI ALPHA(0.05).

# Oneway

[DataSet3] C:\Users\stefa\OneDrive - Careered - CTU\2024\RES81 4\Data Files SPSS\Week 1\gss.sav

**ANOVA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | **69070941438** | **2** | **34535470719** | **68.102** | **.000** |
| Within Groups | **4.635E+11** | **914** | **507116092.0** |  |  |
| Total | **5.326E+11** | **916** |  |  |  |

Respondent's income; ranges recoded to midpoints

# Post Hoc Tests

**Multiple Comparisons**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (I) Degree (J) Degree | | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| Less than high school | High school | **-9006.727\*** | **2397.441** | **.001** | **-14756.74** | **-3256.72** |
| Junior college or more | **-24252.154\*** | **2474.337** | **.000** | **-30186.59** | **-18317.72** |
| High school | Less than high school | **9006.727\*** | **2397.441** | **.001** | **3256.72** | **14756.74** |
| Junior college or more | **-15245.427\*** | **1601.619** | **.000** | **-19086.74** | **-11404.11** |
| Junior college or more | Less than high school | **24252.154\*** | **2474.337** | **.000** | **18317.72** | **30186.59** |
| High school | **15245.427\*** | **1601.619** | **.000** | **11404.11** | **19086.74** |

Dependent Variable: Respondent's income; ranges recoded to midpoints Bonferroni

\*. The mean difference is significant at the 0.05 level.