REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL CHANGE /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN

/DEPENDENT TotalLanguagescores19QPre\_regandReganalysis

/METHOD=ENTER Deprivedenviroments\_v2Chaoticenviroment\_v2Poolivingcondit ions\_v2

LowSESconditions\_v2Timespentinschools /SCATTERPLOT=(\*ZRESID ,\*ZPRED)

/RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID).

**Regression**

**Variables Entered/Removed a**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Variables** | **Variables** |  |
| **Model** | **Entered** | **Removed** | **Method** |
| **1** | **Time spent** | **.** | **Enter** |
|  | **in schools,** |  |  |
|  | **LowSEScondit** |  |  |
|  | **ions\_v2,** |  |  |
|  | **Deprivedenvi** |  |  |
|  | **roments\_v2,** |  |  |
|  | **Chaoticenviro** |  |  |
|  | **ment\_v2,** |  |  |
|  | **Poorlivingcon** |  |  |
|  | **ditions\_v2b** |  |  |
|  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **All requested variables entered.**

**Model Summary b**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Change Statistics** |  |  |
|  |  |  |  |  | **Adjusted R** | **Std. Error of** | **R Square** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Model** | **R** |  | **R Square** | **Square** | **the Estimate** | **Change** | **F Change** |  |  |  |
| **1** | **. 394 a** |  | **.155** |  | **.096** |  | **3.138** | **.155** | **2.643** |  |  |  |
|  |  |  |  |  | **Model Summary b** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Change Statistics** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **Durbin-** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Model** | **df1** |  | **df2** |  | **Sig. F Change** |  | **Watson** |  |  |  |  |  |
| **1** | **5** |  | **7 2** |  | **.030** |  | **2.040** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



1. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**
2. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

Page 1

**ANOVAa**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Sum of** |  |  |  |  |  |
| **Model** |  | **Squares** | **df** | **Mean Square** | **F** | **Sig.** |
| **1** | **Regression** | **130.114** | **5** | **26** | **.023** | **2.643** | **. 030 b** |
|  | **Residual** | **708.873** | **7 2** | **9** | **.845** |  |  |
|  | **Total** | **838.987** | **7 7** |  |  |  |  |
|  |  |  |  |  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**

**Coefficientsa**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  | **Standardized** |  |  |  |  |  |  |
|  |  |  | **Unstandardized Coefficients** |  | **Coefficients** |  |  |  |  |  |  |
| **Model** |  |  | **B** |  | **Std. Error** |  |  | **Beta** |  |  | **t** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **1** | **(Constant)** |  | **19.311** |  | **1.692** |  |  |  |  |  | **11.414** |  |  |  |
|  | **Deprivedenviroments\_v2** | **2.875** |  | **1.269** |  | **.424** |  | **2.265** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.613** |  | **1.359** |  | **.083** |  | **.451** |  |  |  |
|  | **Poorlivingconditions\_v2** | **-2.693** |  | **1.627** |  | **-.409** |  | **-1.655** |  |  |  |
|  | **LowSESconditions\_v2** | **-2.768** |  | **1.606** |  | **-.421** |  | **-1.724** |  |  |  |
|  | **Time spent in schools** | **-.016** |  |  | **.010** |  | **-.180** |  | **-1.591** |  |  |  |
|  |  |  | **Coefficientsa** |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **Collinearity Statistics** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Model** |  |  | **Sig.** |  |  | **Tolerance** |  | **VIF** |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1** | **(Constant)** |  | **.000** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.027** |  |  | **.336** |  | **2.980** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.653** |  |  | **.347** |  | **2.879** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Poorlivingconditions\_v2** | **.102** |  |  | **.192** |  | **5.212** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **LowSESconditions\_v2** | **.089** |  |  | **.196** |  | **5.094** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Time spent in schools** | **.116** |  |  | **.921** |  | **1.086** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis** |  |  |  |  |  |  |
|  |  | **Residuals Statisticsa** |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Minimum** | **Maximum** |  |  | **Mean** |  | **Std. Deviation** |  | **N** |  |
| **Predicted Value** | **15.49** | **19.40** |  |  | **17.99** |  |  |  | **1.300** |  | **7 8** |  |  |  |  |
| **Residual** | **-6.101** | **7.603** |  |  | **.000** |  |  |  | **3.034** |  | **7 8** |  |  |  |  |
| **Std. Predicted Value** | **-1.920** | **1.085** |  |  | **.000** |  |  |  | **1.000** |  | **7 8** |  |  |  |  |
| **Std. Residual** | **-1.944** | **2.423** |  |  | **.000** |  |  |  | **.967** |  | **7 8** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



**a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

Page 2

**Charts**

**Histogram**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Mean = 1.51E-15** |  |
|  | **1 2** |  |  |  |  | **Std. Dev. = 0 . 9 6 7** |  |
|  |  |  |  |  |  | **N =78** |  |
|  | **1 0** |  |  |  |  |  |  |
| **Frequency** | **8** |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **4** |  |  |  |  |  |  |
|  | **2** |  |  |  |  |  |  |
|  | **0** |  |  |  |  |  |  |
|  | **- 2** | **- 1** | **0** | **1** | **2** | **3** |  |

**Regression Standardized Residual**

**Normal P-P Plot of Regression Standardized Residual**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**1 . 0**



**0 . 8**

|  |
| --- |
| **Expected Cum Prob** |

**0 . 6**

**0 . 4**

**0 . 2**

**0 . 0**

**0.0** **0.2** **0.4** **0.6** **0.8** **1.0**

**Observed Cum Prob**

Page 3

**Scatterplot**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



|  |
| --- |
| **Regression Standardized Residual** |

**3**

**2**

**1**

**0**

**- 1**

**- 2**

**-2** **-1** **0** **1** **2**

**Regression Standardized Predicted Value**

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL CHANGE /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN

/DEPENDENT TotalLanguagescores19QPre\_regandReganalysis

/METHOD=ENTER Deprivedenviroments\_v2Chaoticenviroment\_v2Poolivingcondit ions\_v2

LowSESconditions\_v2Timespentinschools /SCATTERPLOT=(\*ZRESID ,\*ZPRED)

/RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID)

/SAVE ZPRED COOK LEVER ZRESID.

**Regression**

Page 4

**Variables Entered/Removed a**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Variables** | **Variables** |  |
| **Model** | **Entered** | **Removed** | **Method** |
| **1** | **Time spent** | **.** | **Enter** |
|  | **in schools,** |  |  |
|  | **LowSEScondit** |  |  |
|  | **ions\_v2,** |  |  |
|  | **Deprivedenvi** |  |  |
|  | **roments\_v2,** |  |  |
|  | **Chaoticenviro** |  |  |
|  | **ment\_v2,** |  |  |
|  | **Poorlivingcon** |  |  |
|  | **ditions\_v2b** |  |  |
|  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **All requested variables entered.**

**Model Summary b**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Change Statistics** |  |  |
|  |  |  |  |  | **Adjusted R** | **Std. Error of** | **R Square** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Model** | **R** |  | **R Square** | **Square** | **the Estimate** | **Change** | **F Change** |  |  |  |
| **1** | **. 394 a** |  | **.155** |  | **.096** |  | **3.138** | **.155** | **2.643** |  |  |  |
|  |  |  |  |  | **Model Summary b** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Change Statistics** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **Durbin-** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Model** | **df1** |  | **df2** |  | **Sig. F Change** |  | **Watson** |  |  |  |  |  |
| **1** | **5** |  | **7 2** |  | **.030** |  | **2.040** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



1. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**
2. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**ANOVAa**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Sum of** |  |  |  |  |  |
| **Model** |  | **Squares** | **df** | **Mean Square** | **F** | **Sig.** |
| **1** | **Regression** | **130.114** | **5** | **26** | **.023** | **2.643** | **. 030 b** |
|  | **Residual** | **708.873** | **7 2** | **9** | **.845** |  |  |
|  | **Total** | **838.987** | **7 7** |  |  |  |  |
|  |  |  |  |  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**

Page 5

**Coefficientsa**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Standardized** |  |  |  |  |
|  |  | **Unstandardized Coefficients** |  | **Coefficients** |  |  |  |  |
| **Model** |  | **B** |  | **Std. Error** |  |  | **Beta** | **t** |  |  |  |
|  |  |  |  |  |  |
| **1** | **(Constant)** | **19.311** |  | **1.692** |  |  |  | **11.414** |  |  |  |
|  | **Deprivedenviroments\_v2** | **2.875** |  | **1.269** |  | **.424** | **2.265** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.613** |  | **1.359** |  | **.083** | **.451** |  |  |  |
|  | **Poorlivingconditions\_v2** | **-2.693** |  | **1.627** |  | **-.409** | **-1.655** |  |  |  |
|  | **LowSESconditions\_v2** | **-2.768** |  | **1.606** |  | **-.421** | **-1.724** |  |  |  |
|  | **Time spent in schools** | **-.016** |  |  | **.010** |  | **-.180** | **-1.591** |  |  |  |
|  |  | **Coefficientsa** |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **Collinearity Statistics** |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Model** |  | **Sig.** |  | **Tolerance** |  | **VIF** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **1** | **(Constant)** | **.000** |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.027** |  | **.336** |  | **2.980** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.653** |  | **.347** |  | **2.879** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Poorlivingconditions\_v2** | **.102** |  | **.192** |  | **5.212** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **LowSESconditions\_v2** | **.089** |  | **.196** |  | **5.094** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Time spent in schools** | **.116** |  | **.921** |  | **1.086** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



**a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**Residuals Statisticsa**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** | **N** |
| **Predicted Value** | **15.49** | **19.40** | **17.99** | **1.300** | **7 8** |
| **Std. Predicted Value** | **-1.920** | **1** | **.085** | **.000** | **1.000** | **7 8** |
| **Standard Error of** | **.569** | **1** | **.626** | **.827** | **.271** | **7 8** |
| **Predicted Value** |  |  |  |  |  |  |
| **Adjusted Predicted Value** | **15.21** | **20.16** | **17.99** | **1.329** | **7 8** |
|  |  |  |  |  |  |  |
| **Residual** | **-6.101** | **7** | **.603** | **.000** | **3.034** | **7 8** |
| **Std. Residual** | **-1.944** | **2** | **.423** | **.000** | **.967** | **7 8** |
| **Stud. Residual** | **-1.987** | **2** | **.480** | **-.001** | **.999** | **7 8** |
| **Deleted Residual** | **-6.374** | **7** | **.963** | **-.007** | **3.246** | **7 8** |
| **Stud. Deleted Residual** | **-2.030** | **2** | **.575** | **.001** | **1.011** | **7 8** |
| **Mahal. Distance** | **1.546** | **19** | **.695** | **4.936** | **4.408** | **7 8** |
| **Cook's Distance** | **.000** |  | **.086** | **.012** | **.016** | **7 8** |
| **Centered Leverage Value** | **.020** |  | **.256** | **.064** | **.057** | **7 8** |
|  |  |  |  |  |  |  |



**a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

Page 6

**Charts**

**Histogram**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Mean = 1.51E-15** |  |
|  | **1 2** |  |  |  |  | **Std. Dev. = 0 . 9 6 7** |  |
|  |  |  |  |  |  | **N =78** |  |
|  | **1 0** |  |  |  |  |  |  |
| **Frequency** | **8** |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **4** |  |  |  |  |  |  |
|  | **2** |  |  |  |  |  |  |
|  | **0** |  |  |  |  |  |  |
|  | **- 2** | **- 1** | **0** | **1** | **2** | **3** |  |

**Regression Standardized Residual**

**Normal P-P Plot of Regression Standardized Residual**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**1 . 0**



**0 . 8**

|  |
| --- |
| **Expected Cum Prob** |

**0 . 6**

**0 . 4**

**0 . 2**

**0 . 0**

**0.0** **0.2** **0.4** **0.6** **0.8** **1.0**

**Observed Cum Prob**

Page 7

**Scatterplot**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



|  |  |  |
| --- | --- | --- |
| **Residual** | **3** |  |
| **2** |  |
| **Standardized** |  |
| **0** |  |
|  | **1** |  |
| **Regression** | **- 1** |  |
|  |  |
|  | **- 2** |  |

**-2** **-1** **0** **1**

**Regression Standardized Predicted Value**

GRAPH

/SCATTERPLOT(BIVAR)=ZPR\_10 WITH ZRE\_10

/MISSING=LISTWISE.

**Graph**



|  |  |  |
| --- | --- | --- |
|  | **3.00000** |  |
|  | **2.00000** |  |
| **Residual** | **1.00000** |  |
| **Standardized** |  |
| **.00000** |  |
|  |  |

* **1.00000**
* **2.00000**

**-2.00000** **-1.00000** **.00000** **1.00000**

**Standardized Predicted Value**

REGRESSION

**2**

**2.00000**

Page 8

/DESCRIPTIVES MEAN STDDEV CORR SIG N

/MISSING LISTWISE

/STATISTICS COEFF OUTS CI(95) BCOV R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN

/DEPENDENT TotalLanguagescores19QPre\_regandReganalysis

/METHOD=ENTER Deprivedenviroments\_v2Chaoticenviroment\_v2Poolivingcondit ions\_v2

LowSESconditions\_v2Timespentinschools /SCATTERPLOT=(\*ZRESID ,\*ZPRED)

/RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID)

/SAVE ZPRED COOK LEVER ZRESID.

**Regression**

**Descriptive Statistics**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Mean** | **Std. Deviation** | **N** |
| **Total Language scores** | **17.99** | **3** | **.301** | **7 8** |
| **19Q Pre-reg and Reg** |  |  |  |  |
| **analysis** |  |  |  |  |
|  |  |  |  |  |
| **Deprivedenviroments\_v2** | **. 63** |  | **.486** | **7 8** |
|  |  |  |  |  |
| **Chaoticenviroment\_v2** | **. 27** |  | **.446** | **7 8** |
| **Poorlivingconditions\_v2** | **. 46** |  | **.502** | **7 8** |
| **LowSESconditions\_v2** | **. 47** |  | **.503** | **7 8** |
| **Time spent in schools** | **46.68** | **37** | **.467** | **7 8** |
|  |  |  |  |  |



Page 9

**Correlations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Total** |  |  |  |  |
|  |  | **Language** |  |  |  |  |
|  |  | **scores 19Q** |  |  |  |  |
|  |  | **Pre-reg and** | **Deprivedenvir** | **Chaoticenviro** |  |
|  |  | **Reg analysis** | **oments\_v2** | **ment\_v2** |  |
| **Pearson Correlation** | **Total Language scores** | **1.000** | **.312** | **-.253** |  |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |  |
|  | **analysis** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.312** | **1.000** | **-.789** |  |  |
|  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **-.253** | **-.789** | **1.000** |  |  |
|  | **Poorlivingconditions\_v2** | **.043** | **.180** | **-.214** |  |  |
|  | **LowSESconditions\_v2** | **-.067** | **-.013** | **.118** |  |  |
|  | **Time spent in schools** | **-.185** | **-.126** | **.222** |  |  |
| **Sig. (1-tailed)** | **Total Language scores** | **.** | **.003** | **.013** |  |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |  |
|  | **analysis** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.003** | **.** | **.000** |  |  |
|  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.013** | **.000** | **.** |  |  |
|  | **Poorlivingconditions\_v2** | **.355** | **.057** | **.030** |  |  |
|  | **LowSESconditions\_v2** | **.281** | **.455** | **.152** |  |  |
|  | **Time spent in schools** | **.053** | **.137** | **.025** |  |  |
| **N** | **Total Language scores** | **7 8** | **7 8** | **7 8** |  |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |  |
|  | **analysis** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **7 8** | **7 8** | **7 8** |  |  |
|  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **7 8** | **7 8** | **7 8** |  |  |
|  | **Poorlivingconditions\_v2** | **7 8** | **7 8** | **7 8** |  |  |
|  | **LowSESconditions\_v2** | **7 8** | **7 8** | **7 8** |  |  |
|  | **Time spent in schools** | **7 8** | **7 8** | **7 8** |  |  |
|  |  |  |  |  |  |  |



Page 10

**Correlations**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Poorlivingcondi** | **LowSESconditio** | **Time spent in** |  |
|  |  | **tions\_v2** | **ns\_v2** | **schools** |  |
| **Pearson Correlation** | **Total Language scores** | **.043** | **-.067** | **-.185** |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |
|  | **analysis** |  |  |  |  |
|  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.180** | **-.013** | **-.126** |  |
|  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **-.214** | **.118** | **.222** |  |
|  | **Poorlivingconditions\_v2** | **1.000** | **-.879** | **-.128** |  |
|  | **LowSESconditions\_v2** | **-.879** | **1.000** | **.054** |  |
|  | **Time spent in schools** | **-.128** | **.054** | **1.000** |  |
| **Sig. (1-tailed)** | **Total Language scores** | **.355** | **.281** | **.053** |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |
|  | **analysis** |  |  |  |  |
|  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.057** | **.455** | **.137** |  |
|  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.030** | **.152** | **.025** |  |
|  | **Poorlivingconditions\_v2** | **.** | **.000** | **.132** |  |
|  | **LowSESconditions\_v2** | **.000** | **.** | **.320** |  |
|  | **Time spent in schools** | **.132** | **.320** | **.** |  |
| **N** | **Total Language scores** | **7 8** | **7 8** | **7 8** |  |
|  | **19Q Pre-reg and Reg** |  |  |  |  |
|  | **analysis** |  |  |  |  |
|  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **7 8** | **7 8** | **7 8** |  |
|  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **7 8** | **7 8** | **7 8** |  |
|  | **Poorlivingconditions\_v2** | **7 8** | **7 8** | **7 8** |  |
|  | **LowSESconditions\_v2** | **7 8** | **7 8** | **7 8** |  |
|  | **Time spent in schools** | **7 8** | **7 8** | **7 8** |  |
|  |  |  |  |  |  |



**Variables Entered/Removed a**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Variables** | **Variables** |  |
| **Model** | **Entered** | **Removed** | **Method** |
| **1** | **Time spent** | **.** | **Enter** |
|  | **in schools,** |  |  |
|  | **LowSEScondit** |  |  |
|  | **ions\_v2,** |  |  |
|  | **Deprivedenvi** |  |  |
|  | **roments\_v2,** |  |  |
|  | **Chaoticenviro** |  |  |
|  | **ment\_v2,** |  |  |
|  | **Poorlivingcon** |  |  |
|  | **ditions\_v2b** |  |  |
|  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **All requested variables entered.**

Page 11

**Model Summary b**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | **Adjusted R** | **Std. Error of** |
| **Model** | **R** | **R Square** | **Square** | **the Estimate** |
| **1** | **. 394 a** | **.155** | **.096** | **3.138** |



1. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**
2. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**ANOVAa**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Sum of** |  |  |  |  |  |
| **Model** |  | **Squares** | **df** | **Mean Square** | **F** | **Sig.** |
| **1** | **Regression** | **130.114** | **5** | **26** | **.023** | **2.643** | **. 030 b** |
|  | **Residual** | **708.873** | **7 2** | **9** | **.845** |  |  |
|  | **Total** | **838.987** | **7 7** |  |  |  |  |
|  |  |  |  |  |  |  |  |



1. **Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**
2. **Predictors: (Constant), Time spent in schools, LowSESconditions\_v2, Deprivedenviroments\_v2, Chaoticenviroment\_v2, Poorlivingconditions\_v2**

**Coefficientsa**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Standardized** |  |  |  |  |  |  |
|  |  | **Unstandardized Coefficients** | **Coefficients** |  |  |  |  |  |  |
| **Model** |  | **B** |  | **Std. Error** | **Beta** |  | **t** |  |  |  |  |
|  |  |  |  |  |  |  |
| **1** | **(Constant)** | **19** | **.311** |  | **1.692** |  | **11** | **.414** |  |  |  |
|  | **Deprivedenviroments\_v2** | **2** | **.875** |  | **1.269** | **.424** | **2** | **.265** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** |  | **.613** |  | **1.359** | **.083** |  | **.451** |  |  |  |
|  | **Poorlivingconditions\_v2** | **-2.693** |  | **1.627** | **-.409** | **-1.6** | **5 5** |  |  |  |
|  | **LowSESconditions\_v2** | **-2.768** |  | **1.606** | **-.421** | **-1.7** | **2 4** |  |  |  |
|  | **Time spent in schools** | **-.016** |  | **.010** | **-.180** | **-1.5** | **9 1** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



**Coefficientsa**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  | **Collinearity** |  |  |
|  |  |  | **95.0% Confidence Interval for B** | **Statistics** |  |  |
| **Model** |  | **Sig.** | **Lower Bound** |  | **Upper Bound** | **Tolerance** |  |  |
|  |  |  |  |
| **1** | **(Constant)** | **.000** | **15.938** |  | **22** | **.683** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **Deprivedenviroments\_v2** | **.027** | **.345** |  | **5** | **.404** | **.336** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **Chaoticenviroment\_v2** | **.653** | **-2.096** |  | **3** | **.322** | **.347** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **Poorlivingconditions\_v2** | **.102** | **-5.937** |  |  | **.550** | **.192** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **LowSESconditions\_v2** | **.089** | **-5.969** |  |  | **.433** | **.196** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **Time spent in schools** | **.116** | **-.036** |  |  | **.004** | **.921** |  |  |
|  |  |  |  |  |  |  |  |  |  |



Page 12

**Coefficientsa**

**Collinearity**

**Statistics**

**Model** **VIF**



1. **(Constant)**

**Deprivedenviroments\_v22 .980**

|  |  |
| --- | --- |
| **Chaoticenviroment\_v2** | **2.879** |
|  |  |
| **Poorlivingconditions\_v2** | **5.212** |
|  |  |
| **LowSESconditions\_v2** | **5.094** |
|  |  |
| **Time spent in schools** | **1.086** |

**a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**Coefficient Correlations a**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Time spent in** |  | **LowSESconditio** | **Deprivedenvir** |  |
| **Model** |  |  | **schools** |  | **ns\_v2** | **oments\_v2** |  |
| **1** | **Correlations** | **Time spent in schools** | **1.000** |  | **.131** | **-.121** |  |  |
|  |  | **LowSESconditions\_v2** | **.131** |  | **1.000** | **-.323** |  |  |
|  |  | **Deprivedenviroments\_v2** | **-.121** |  | **-.323** | **1.000** |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Chaoticenviroment\_v2** | **-.209** |  | **-.177** | **.784** |  |  |
|  |  | **Poorlivingconditions\_v2** | **.156** |  | **.893** | **-.299** |  |  |
|  | **Covariances** | **Time spent in schools** | **9.888E-5** |  | **.002** | **-.002** |  |  |
|  |  | **LowSESconditions\_v2** | **.002** |  | **2.579** | **-.658** |  |  |
|  |  | **Deprivedenviroments\_v2** | **-.002** |  | **-.658** | **1.610** |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Chaoticenviroment\_v2** | **-.003** |  | **-.386** | **1.352** |  |  |
|  |  | **Poorlivingconditions\_v2** | **.003** |  | **2.333** | **-.618** |  |  |
|  |  | **Coefficient Correlations a** |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  | **Chaoticenviro** |  | **Poorlivingcondi** |  |  |  |
| **Model** |  |  | **ment\_v2** |  | **tions\_v2** |  |  |  |
| **1** | **Correlations** | **Time spent in schools** | **-.209** |  | **.156** |  |  |  |
|  |  | **LowSESconditions\_v2** | **-.177** |  | **.893** |  |  |  |
|  |  | **Deprivedenviroments\_v2** | **.784** |  | **-.299** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Chaoticenviroment\_v2** | **1.000** |  | **-.114** |  |  |  |
|  |  | **Poorlivingconditions\_v2** | **-.114** |  | **1.000** |  |  |  |
|  | **Covariances** | **Time spent in schools** | **-.003** |  | **.003** |  |  |  |
|  |  | **LowSESconditions\_v2** | **-.386** |  | **2.333** |  |  |  |
|  |  | **Deprivedenviroments\_v2** | **1.352** |  | **-.618** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Chaoticenviroment\_v2** | **1.847** |  | **-.251** |  |  |  |
|  |  | **Poorlivingconditions\_v2** | **-.251** |  | **2.647** |  |  |  |
|  |  |  |  |  |  |  |  |  |



Page 13

a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis

**Collinearity Diagnostics a**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Variance Proportions |  |
|  |  |  | Condition |  | Deprivedenvir |  | Chaoticenviro |  |  |
|  |  |  |  |  |  |  |
| Model | Dimension | Eigenvalue | Index | (Constant) | oments\_v2 |  | ment\_v2 |  |  |
| 1 | 1 | 3.575 | 1 | .000 | .00 | .01 |  | .01 |  |  |
|  | 2 | 1.176 | 1 | .744 | .00 | .02 |  | .08 |  |  |
|  | 3 | .851 | 2 | .050 | .00 | .02 |  | .09 |  |  |
|  | 4 | .305 | 3 | .425 | .01 | .00 |  | .07 |  |  |
|  | 5 | .065 | 7 | .409 | .07 | .94 |  | .72 |  |  |
|  | 6 | .028 | 11 | .322 | .92 | .01 |  | .04 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |



**Collinearity Diagnostics a**

|  |  |  |
| --- | --- | --- |
|  |  | Variance Proportions |
|  |  |  |  |  |
|  |  | Poorlivingcondi | LowSESconditio | Time spent in |
| Model | Dimension | tions\_v2 | ns\_v2 | schools |
| 1 | 1 | .00 | .00 | .02 |
|  |  |  |  |  |
|  | 2 | .03 | .02 | .00 |
|  |  |  |  |  |
|  | 3 | .03 | .04 | .00 |
|  |  |  |  |  |
|  | 4 | .01 | .02 | .90 |
|  |  |  |  |  |
|  | 5 | .16 | .19 | .01 |
|  |  |  |  |  |
|  | 6 | .77 | .73 | .07 |
|  |  |  |  |  |



a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis

Page 14

**Residuals Statisticsa**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** | **N** |
| **Predicted Value** | **15.49** | **19.40** | **17.99** | **1.300** | **7 8** |
| **Std. Predicted Value** | **-1.920** | **1** | **.085** | **.000** | **1.000** | **7 8** |
| **Standard Error of** | **.569** | **1** | **.626** | **.827** | **.271** | **7 8** |
| **Predicted Value** |  |  |  |  |  |  |
| **Adjusted Predicted Value** | **15.21** | **20.16** | **17.99** | **1.329** | **7 8** |
|  |  |  |  |  |  |  |
| **Residual** | **-6.101** | **7** | **.603** | **.000** | **3.034** | **7 8** |
| **Std. Residual** | **-1.944** | **2** | **.423** | **.000** | **.967** | **7 8** |
| **Stud. Residual** | **-1.987** | **2** | **.480** | **-.001** | **.999** | **7 8** |
| **Deleted Residual** | **-6.374** | **7** | **.963** | **-.007** | **3.246** | **7 8** |
| **Stud. Deleted Residual** | **-2.030** | **2** | **.575** | **.001** | **1.011** | **7 8** |
| **Mahal. Distance** | **1.546** | **19** | **.695** | **4.936** | **4.408** | **7 8** |
| **Cook's Distance** | **.000** |  | **.086** | **.012** | **.016** | **7 8** |
| **Centered Leverage Value** | **.020** |  | **.256** | **.064** | **.057** | **7 8** |
|  |  |  |  |  |  |  |



**a. Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**Charts**

**Histogram**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Mean = 1.51E-15** |  |
|  | **1 2** |  |  |  |  | **Std. Dev. = 0 . 9 6 7** |  |
|  |  |  |  |  |  | **N =78** |  |
|  | **1 0** |  |  |  |  |  |  |
| **Frequency** | **8** |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **4** |  |  |  |  |  |  |
|  | **2** |  |  |  |  |  |  |
|  | **0** |  |  |  |  |  |  |
|  | **- 2** | **- 1** | **0** | **1** | **2** | **3** |  |

**Regression Standardized Residual**

Page 15

**Normal P-P Plot of Regression Standardized Residual**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**

**1 . 0**



**0 . 8**

|  |
| --- |
| **Expected Cum Prob** |

**0 . 6**

**0 . 4**

**0 . 2**

**0 . 0**

**0.0** **0.2** **0.4** **0.6** **0.8** **1.0**

**Observed Cum Prob**

|  |
| --- |
| **Regression Standardized Residual** |

**Scatterplot**

**Dependent Variable: Total Language scores 19Q Pre-reg and Reg analysis**



**3**

**2**

**1**

**0**

**- 1**

**- 2**

**-2** **-1** **0** **1** **2**

**Regression Standardized Predicted Value**

Your license will expire in 22 days.

Page 16