Phd Prestige

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11/13/2018

```
## 
## Call:
## lm(formula = SchoolRank ~ LiberalArts + PublicSchool + ClinPsych +
##     Masters + RA, data = prestige)
## 
## Coefficients:
##  (Intercept)   LiberalArts  PublicSchool      ClinPsych       Masters
##       5.6789        0.3486       -0.6368         1.4217        2.1296
##           RA
##      -0.5647
## 
## Call:
## lm(formula = SchoolRank ~ LiberalArts + PublicSchool + ClinPsych +
##     Masters + RA, data = prestige)
## 
## Residuals:
##    Min     1Q Median     3Q    Max
## -7.593 -3.157 -1.042  4.536  6.523
## 
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    5.6789     0.7305   7.773 1.23e-13 ***
## LiberalArts    0.3486     0.9156   0.381 0.703659
## PublicSchool  -0.6368     0.8647  -0.736 0.462008
## ClinPsych      1.4217     0.5974   2.380 0.017944 *
## Masters        2.1296     0.6039   3.527 0.000487 ***
## RA            -0.5647     0.4868  -1.160 0.246937
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 3.874 on 300 degrees of freedom
##   (302 observations deleted due to missingness)
## Multiple R-squared:  0.05906,    Adjusted R-squared:  0.04338
## F-statistic: 3.766 on 5 and 300 DF,  p-value: 0.002535
```

```
##
## Call:
## lm(formula = SchoolRank ~ LiberalArts + PublicSchool + ClinPsych +
##     Masters + RA, data = prestigeTop5)
##
## Coefficients:
##  (Intercept)   LiberalArts  PublicSchool      ClinPsych       Masters
##      3.32856      -0.61528      -0.49945        0.09315      -0.19921
##           RA
##      -0.46328

##
## Call:
## lm(formula = SchoolRank ~ LiberalArts + PublicSchool + ClinPsych +
##     Masters + RA, data = prestigeTop5)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.3286 -0.8291 -0.2500  1.0777  1.7500
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.32856    0.29087  11.443   <2e-16 ***
## LiberalArts  -0.61528    0.36931  -1.666   0.0977 .
## PublicSchool -0.49945    0.34436  -1.450   0.1489
## ClinPsych     0.09315    0.23971   0.389   0.6981
## Masters      -0.19921    0.32577  -0.612   0.5417
## RA           -0.46328    0.20078  -2.307   0.0223 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.185 on 158 degrees of freedom
##   (136 observations deleted due to missingness)
## Multiple R-squared:  0.0544, Adjusted R-squared:  0.02447
## F-statistic: 1.818 on 5 and 158 DF,  p-value: 0.1123
```

By Region and School Attendance Population

```
## 
##  Pearson's Chi-squared test
## 
## data:  table4
## X-squared = 156.24, df = 3, p-value < 2.2e-16

##         A      B      C      D
## A  12.37  -1.50  -5.57  -3.24
## B -12.37   1.50   5.57   3.24
```

By Division and School Attendance Population

```
## 
##   Pearson's Chi-squared test
## 
## data:  table
## X-squared = 208.76, df = 8, p-value < 2.2e-16

##         A      B      C      D      E      F      G      H      I
## A  11.87   6.29  -1.10  -0.89  -2.81  -2.73  -3.03  -4.26  -0.56
## B -11.87  -6.29   1.10   0.89   2.81   2.73   3.03   4.26   0.56
```

Chi-square according to number of HEIs

By Region

```
## 
##  Pearson's Chi-squared test
## 
## data:  table2
## X-squared = 57.466, df = 3, p-value = 2.043e-12

##        A     B     C      D
## A   7.14 -2.47 -4.79  0.25
## B  -7.14  2.47  4.79 -0.25
```

By division

```
## 
##  Pearson's Chi-squared test
## 
## data:  table3
## X-squared = 85.185, df = 8, p-value = 4.397e-15

##       A     B     C     D     E     F     G     H     I
## A  6.79  3.10 -1.31 -2.01 -2.44 -3.25 -1.94 -2.85  2.24
## B -6.79 -3.10  1.31  2.01  2.44  3.25  1.94  2.85 -2.24
```