Practice Exam 2 Output

ECO 230: Business and Economic Research and Communication

Grade school children's Goals and School Year

```r
df <- read.csv("http://murraylax.org/datasets/gradeschool.csv")
chisq.test(df$SchoolYear, df$Goals)
```

```
## Warning in chisq.test(df$SchoolYear, df$Goals): Chi-squared approximation
## may be incorrect
```

```
##
##  Pearson's Chi-squared test
##
## data:  df$SchoolYear and df$Goals
## X-squared = 6.6383, df = 8, p-value = 0.5761
```

```r
cor.test(df$SchoolYear, df$Goals)
```

```
##
##  Pearson's product-moment correlation
##
## data:  df$SchoolYear and df$Goals
## t = -0.24785, df = 476, p-value = 0.8044
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.10094410  0.07840828
## sample estimates:
##         cor
## -0.01135927
```

```r
t.test(df$SchoolYear, df$Goals)
```

```
##
##  Welch Two Sample t-test
##
## data:  df$SchoolYear and df$Goals
## t = 44.059, df = 802.42, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  2.840359 3.105248
## sample estimates:
## mean of x mean of y
##  5.133891  2.161088
```

Job Satisfaction and Employee Burnout

```r
load(url("http://murraylax.org/datasets/jobsat.RData"))
cor.test(x=dat$Burnout, y=dat$Satisfaction, method="pearson")
```

```
##
##  Pearson's product-moment correlation
##
## data:  dat$Burnout and dat$Satisfaction
## t = -5.8295, df = 201, p-value = 2.187e-08
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.4922205 -0.2559838
## sample estimates:
##       cor
## -0.380288
```

```r
cor.test(x=dat$Burnout, y=dat$Satisfaction, method="spearman")
```

```
## Warning in cor.test.default(x = dat$Burnout, y = dat$Satisfaction, method =
## "spearman"): Cannot compute exact p-value with ties
```

```
##
##  Spearman's rank correlation rho
##
## data:  dat$Burnout and dat$Satisfaction
## S = 2072200, p-value = 1.897e-13
## alternative hypothesis: true rho is not equal to 0
## sample estimates:
##        rho
## -0.4863197
```

```r
chisq.test(dat$Burnout, dat$Satisfaction)
```

```
## Warning in chisq.test(dat$Burnout, dat$Satisfaction): Chi-squared
## approximation may be incorrect
```

```
##
##  Pearson's Chi-squared test
##
## data:  dat$Burnout and dat$Satisfaction
## X-squared = 1713.4, df = 1271, p-value = 1.047e-15
```