**UDPS1133 Statistical Methods Assignment part 2**

: The retired senior executives who returned to work are distributed as follows: 38% are employed by another organization, 32% are self-employed, 23% are either free-lancing or consulting, and 7% have formed their own companies (claim).

: The distribution is not same as stated in the null hypothesis.

**R code**

ofs <- c(122,85,76,17)

null.probs <- c(0.38,0.32,0.23,0.07)

chisq.test(ofs, p=null.probs)

**R output**

Chi-squared test for given probabilities

data: ofs

X-squared = 3.2939, df = 3, p-value = 0.3485

**Conclusion**

3.2939 < 6.251

Do not reject the null hypothesis at α = 0.10. There is not enough evidence to reject the claim. It can be concluded the percentages which given in the null hypothesis are the same for those people in Allegheny County.

