```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5     v purrr   0.3.4
## v tibble  3.1.4     v dplyr   1.0.7
## v tidyr   1.1.3     v stringr 1.4.0
## v readr   2.0.1     v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(readr)
library(psych)
```

```
##
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```
data=read_csv("~/Desktop/204 R/USHOUSE.csv")
```

```
## Rows: 4 Columns: 3

## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (1): RELIGION
## dbl (2): USPROP, SEATS

##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
data
```

```
## # A tibble: 4 x 3
##   RELIGION  USPROP SEATS
##   <chr>      <dbl> <dbl>
## 1 Catholic    0.28   117
## 2 Methodist   0.04    61
## 3 Jewish      0.02    30
## 4 Other       0.66   227
```

```
chisq.test(data$SEATS,p=data$USPROP)
```

```
##
##  Chi-squared test for given probabilities
##
## data:  data$SEATS
## X-squared = 174.17, df = 3, p-value < 2.2e-16
```

we calculated that chi square 174.17,p<2.2e-16 ,null hypothesis is rejected thus, we conclude that the members of the House of Representatives are statistically representative of the religious affiliation of their constituents in the United States.