## 20BCE1025\_Abhishek\_N\_N\_Lab\_6\_Exp-6 Statistical Analysis of qualitative data

## 20BCE1025 Abhishek N N

20/09/2022

Use the survey data in MASS package to do the following:

1. Import the package MASS

```
library("MASS")
```

2. List the rows of data that has missing values.

```
survey[rowSums(is.na(survey)) > 0,]
```

```
Sex Wr.Hnd NW.Hnd W.Hnd
                                                      Clap Exer Smoke Height
##
                                       Fold Pulse
                                                                                    M.I
## 3
         Male
                 18.0
                        13.3 Right
                                     L on R
                                                87 Neither None Occas
                                                                                   <NA>
## 4
                 18.8
         Male
                        18.9 Right
                                     R on L
                                                NA Neither None Never 160.00
                                                                                 Metric
         Male
                 21.0
                        21.0 Right
                                     R on L
                                                      Left Freq Never
                                                                            NA
                                                                                   <NA>
## 13
                 16.0
                        16.0 Right
                                                     Right Some Never
       Female
                                     L on R
                                                NA
                                                                       155.00
                                                                                 Metric
                 16.0
                        15.5 Right
                                                     Right Some Never
##
   15
         Male
                                     R on L
                                                60
                                                                            NA
                                                                                   <NA>
## 16
                 17.5
                        17.0 Right
                                     R on L
                                                NA
                                                     Right Freq Never 156.00
       Female
                                                                                 Metric
## 19
                 20.5
                        20.5 Right
                                                NA
                                                      Left Some Never 190.50 Imperial
         Male
                                     L on R
## 25
                 17.0
                        17.5 Right
                                                64
                                                      Left Some Never
       Female
                                     R on L
                                                                            NA
                                                                                   <NA>
## 26
         Male
                 18.5
                        18.5 Right Neither
                                                90 Neither Some Never
                                                                            NA
                                                                                   <NA>
## 29
         Male
                 17.8
                        17.8 Right
                                     L on R
                                                76 Neither Freq Never
                                                                                   <NA>
## 31
       Female
                 18.5
                        18.0 Right
                                     R on L
                                                76
                                                     Right None Occas
                                                                            NA
                                                                                   <NA>
                 18.0
                        19.0 Right
                                                54 Neither Some Regul
                                                                                   <NA>
## 35
         Male
                                     L on R
                                                                            NA
## 37
       Female
                 16.0
                        16.5 Right
                                     L on R
                                                NA
                                                     Right Some Never 168.00
                                                                                 Metric
## 40
         Male
                 19.0
                        19.0 Right
                                     R on L
                                                NA Neither Freq Occas 171.00
                                                                                 Metric
## 41
       Female
                 17.5
                        16.0 Right
                                                NA
                                                     Right Some Never 169.00
                                                                                 Metric
                                     L on R
## 43
         Male
                   NA
                          NA Right
                                     R on L
                                                60
                                                      <NA> Some Never 172.00
                                                                                 Metric
## 45
                 13.0
                              <NA>
                                     L on R
                                                70
                                                      Left Freq Never 180.34 Imperial
       Female
                        13.0
## 46
         Male
                 17.0
                        17.5 Right
                                     R on L
                                                NA Neither Freq Never 180.34
                                                                               Imperial
                 18.5
                        18.5 Right
                                                NA Neither Freq Never 171.00
## 56
         Male
                                     L on R
                                                                                 Metric
## 58
         Male
                 19.5
                        19.7 Right
                                     R on L
                                                72
                                                     Right Freq Never
                                                                            NA
                                                                                   <NA>
## 60
                 20.6
                        21.0 Left
                                     L on R
                                                NA
                                                      Left Freq Occas 175.26 Imperial
         Male
## 64
                 18.7
                        18.0 Left L on R
                                                      Left None Never 170.00
       Female
                                                NA
                                                                                 Metric
## 66
         Male
                 19.5
                        19.8 Right Neither
                                                NA
                                                     Right Freq Never 183.00
                                                                                 Metric
## 67
       Female
                 19.0
                        19.1 Right
                                                NA Neither Freq Never 172.00
                                     L on R
                                                                                 Metric
## 68
       Female
                 18.5
                        18.0 Right
                                     R on L
                                                64
                                                     Right Freq Never
                                                                            NA
                                                                                   <NA>
                 19.0
                        19.0 Right
## 69
         Male
                                     L on R
                                                NA
                                                     Right Some Never 180.00
                                                                                 Metric
                 21.0
                        19.5 Right
## 70
         Male
                                    L on R
                                                80
                                                      Left None
                                                                  <NA>
                                                                            NA
                                                                                   <NA>
```

```
## 72
         Male
                19.4
                       19.5 Right R on L
                                                   Right Freq Heavy 176.00
                                              NA
                                                                              Metric
                       18.0 Right L on R
## 78
                18.6
                                              NA Neither Freq Heavy 165.10 Imperial
      Female
## 80
         Male
                20.0
                       20.5 Right L on R
                                              NA
                                                   Right Freq Never 185.42 Imperial
## 81
                19.5
                       19.5 Left R on L
                                                    Left Some Never
         Male
                                              66
                                                                         NA
                                                                                <NA>
                       17.5 Right R on L
## 83
       Female
                17.5
                                              98
                                                    Left Freq Never
                                                                         NA
                                                                                <NA>
## 84
       Female
                17.0
                       17.4 Right R on L
                                              NA Neither Some Never
                                                                         NA
                                                                                <NA>
## 90
       Female
                18.0
                       17.7 Left R on L
                                              92
                                                    Left Some Never
                                                                         NA
                                                                                <NA>
## 92
       Female
                17.5
                       18.0 Right Neither
                                              NA
                                                   Right Some Never
                                                                         NA
                                                                                <NA>
## 94
       Female
                18.2
                       18.5 Right R on L
                                              NA
                                                   Right Some Never 168.00
                                                                              Metric
## 96
       Female
                19.0
                       18.8 Right L on R
                                              NA
                                                   Right Some Never
                                                                         NA
                                                                                <NA>
## 99
         Male
                19.5
                       19.4 Right Neither
                                              NA
                                                   Right Freq Never 165.00
                                                                              Metric
                       22.2 Right R on L
## 101
         Male
                21.9
                                              NA
                                                   Right Some Never 187.00
                                                                              Metric
## 103 Female
                16.0
                       16.0 Right Neither
                                              NA
                                                   Right Some Never 159.00
                                                                              Metric
                       16.4 Right
## 107 Female
                16.2
                                   R on L
                                              NA
                                                   Right Freq Occas 172.00
                                                                              Metric
                17.0
                       15.9 Right
## 108 Female
                                   R on L
                                              85
                                                   Right Freq Never
                                                                         NA
                                                                                <NA>
## 121
         Male
                20.0
                       20.0 Right
                                              80 Neither Freq Occas
                                                                         NA
                                                                                <NA>
                                    R on L
## 126
                19.3
                       19.4 Right
                                              NA
                                                   Right Freq Never 180.34 Imperial
         Male
                                   R on L
## 133 Female
                18.9
                       20.0 Right
                                                   Right Some Never
                                   R on L
                                                                                <NA>
## 137
                19.8
                       19.0 Left L on R
                                              73 Neither Freq Never 172.00
         <NA>
                                                                              Metric
## 139
         Male
                20.0
                       19.5 Right L on R
                                              NA
                                                   Right Freq Never 170.00
                                                                              Metric
## 142 Female
                18.3
                       19.0 Right R on L
                                              NA
                                                   Right None Never 165.00
                                                                              Metric
                14.0
                       15.5 Right L on R
## 157
         Male
                                              NA Neither Freq Heavy
                                                                                <NA>
## 159
                20.0
                       20.5 Right R on L
                                              NA
                                                   Right None Never 187.96 Imperial
         Male
                       18.2 Left Neither
## 162
         Male
                18.1
                                              NA
                                                   Right Some Never 168.00
                                                                              Metric
## 165
         Male
                19.1
                       19.1 Right Neither
                                              NA
                                                   Right Some Never 177.00
                                                                              Metric
## 169
         Male
                19.0
                       18.5 Right L on R
                                              NA Neither Freq Never 189.00
                                                                              Metric
                16.5
                       17.0 Right L on R
                                                   Right Some Never 168.00
## 171 Female
                                              NA
                                                                              Metric
## 173 Female
                15.5
                       15.5 Right Neither
                                              50
                                                   Right Some Regul
                                                                         NA
                                                                                <NA>
                20.5
                       20.5 Right R on L
## 179 Female
                                              NA
                                                   Left Freq Regul
                                                                         NA
                                                                                <NA>
## 195 Female
                16.7
                       15.1 Right Neither
                                              NA
                                                   Right None Never 157.48 Imperial
## 203 Female
                18.8
                       17.8 Right
                                   R on L
                                              76
                                                   Right Some Never
                                                                         NA
                                                                                <NA>
## 210 Female
                20.8
                       20.7 Right R on L
                                              NA Neither Freq Never 171.50
                                                                              Metric
## 213
         Male
                18.0
                       18.5 Right R on L
                                              78
                                                   Right Freq Never
                                                                         NA
                                                                                <NA>
## 216
                19.5
                       20.0 Right Neither
                                                   Right Some Never 170.00
         Male
                                              NA
                                                                              Metric
## 217 Female
                16.3
                       16.2 Right L on R
                                              NA
                                                   Right None Never
                                                                                <NA>
                                                                         NA
                       17.3 Right L on R
## 219 Female
                17.0
                                              NA Neither Freq Never 173.00
                                                                              Metric
## 221
         Male
                23.2
                       23.3 Right L on R
                                              NA
                                                   Right None Heavy 171.00
                                                                              Metric
## 224 Female
                17.5
                       17.6 Right
                                                   Right Freq Never 150.00
                                   L on R
                                              NA
                                                                              Metric
## 225 Female
                17.6
                       17.2 Right L on R
                                              NA
                                                   Right Some Never
                                                                         NA
                                                                                <NA>
## 226 Female
                17.5
                       17.8 Right R on L
                                              96
                                                                         NA
                                                   Right Some Never
                                                                                <NA>
## 232
         Male
                18.0
                       16.0 Right R on L
                                              NA
                                                   Right Some Never 180.34 Imperial
  235 Female
##
                17.5
                       16.5 Right R on L
                                              NA
                                                   Right Some Never 170.00
                                                                              Metric
##
          Age
## 3
       16.917
## 4
       20.333
## 12 18.250
## 13
       18.750
## 15
     17.167
## 16
      17.167
## 19
       19.750
## 25
       19.167
## 26
      17.583
## 29 21.917
## 31 41.583
```

- ## 35 17.750
- ## 37 19.000
- ## 40 19.917
- ## 41 17.500
- ## 43 28.583 ## 45 17.417
- ## 46 18.500
- 18.333 ## 56
- ## 58 17.417 ## 60
- 18.417
- ## 64 19.833
- ## 66 18.000
- ## 67 30.667
- ## 68 16.917
- ## 69 19.917
- ## 70 18.333
- ## 72 17.833
- ## 78 17.167
- ## 80 18.750
- ## 81 16.750
- ## 83 17.667 ## 84 17.167
- ## 90 17.583
- ## 92 18.000
- ## 94 17.083
- ## 96 17.083
- ## 99 18.083
- ## 101 18.917
- ## 103 20.833
- ## 107 17.000 ## 108 18.500
- ## 121 17.500
- ## 126 19.833
- ## 133 19.083
- ## 137 21.500
- ## 139 21.417
- ## 142 21.083
- ## 157 21.083
- ## 159 19.667
- ## 162 21.167
- ## 165 19.917
- ## 169 17.417
- ## 171 73.000
- ## 173 18.500 ## 179 19.250
- ## 195 18.167
- ## 203 18.583
- ## 210 18.500
- ## 213 17.500
- ## 216 21.250
- ## 217 19.250
- ## 219 19.167
- ## 221 20.917
- ## 224 20.750

```
## 225 19.917
## 226 18.667
## 232 20.750
## 235 18.583
```

#or

survey[!complete.cases(survey),]

```
##
          Sex Wr. Hnd NW. Hnd W. Hnd
                                       Fold Pulse
                                                      Clap Exer Smoke Height
                                                                                   M.I
## 3
         Male
                 18.0
                        13.3 Right
                                               87 Neither None Occas
                                                                           NA
                                                                                   <NA>
                                    L on R
## 4
                 18.8
                        18.9 Right
                                               NA Neither None Never 160.00
         Male
                                     R on L
                                                                                Metric
## 12
                 21.0
                        21.0 Right
                                                                                   <NA>
         Male
                                     R on L
                                               68
                                                      Left Freq Never
                                                                           NA
## 13
                 16.0
                        16.0 Right
                                                     Right Some Never 155.00
       Female
                                     L on R
                                               NA
                                                                                Metric
## 15
         Male
                 16.0
                        15.5 Right
                                               60
                                                     Right Some Never
                                                                           NA
                                                                                   <NA>
                                     R on L
                        17.0 Right
                                                     Right Freq Never 156.00
                                                                                Metric
## 16
       Female
                 17.5
                                     R on L
                                               NA
## 19
                 20.5
                        20.5 Right
                                                      Left Some Never 190.50 Imperial
         Male
                                     L on R
                                               NA
  25
                        17.5 Right
                                                      Left Some Never
##
       Female
                 17.0
                                    R on L
                                               64
                                                                           NA
                                                                                   <NA>
## 26
                 18.5
                        18.5 Right Neither
                                               90 Neither Some Never
                                                                           NA
                                                                                   <NA>
         Male
## 29
         Male
                 17.8
                        17.8 Right
                                    L on R
                                               76 Neither Freq Never
                                                                           NA
                                                                                   <NA>
                 18.5
                        18.0 Right
                                                     Right None Occas
                                                                                   <NA>
## 31
       Female
                                    R on L
                                               76
                                                                           NA
## 35
         Male
                 18.0
                        19.0 Right
                                    L on R
                                               54 Neither Some Regul
                                                                           NA
                                                                                   <NA>
## 37
       Female
                 16.0
                        16.5 Right
                                    L on R
                                                     Right Some Never 168.00
                                                                                Metric
                                               NA Neither Freq Occas 171.00
## 40
                 19.0
                        19.0 Right
         Male
                                    R on L
                                                                                Metric
## 41
       Female
                 17.5
                        16.0 Right
                                    L on R
                                               NA
                                                     Right Some Never 169.00
                                                                                Metric
##
  43
         Male
                  NA
                          NA Right
                                    R on L
                                               60
                                                      <NA> Some Never 172.00
                                                                                Metric
## 45
       Female
                 13.0
                        13.0 <NA>
                                     L on R
                                               70
                                                      Left Freq Never 180.34 Imperial
## 46
         Male
                 17.0
                        17.5 Right
                                     R on L
                                               NA Neither Freq Never 180.34 Imperial
## 56
         Male
                 18.5
                        18.5 Right
                                               NA Neither Freq Never 171.00
                                                                                Metric
                                     L on R
## 58
                 19.5
                        19.7 Right
                                                     Right Freq Never
                                                                           NA
                                                                                   <NA>
         Male
                                    R on L
                                               72
## 60
         Male
                 20.6
                        21.0 Left
                                     L on R
                                               NA
                                                      Left Freq Occas 175.26 Imperial
## 64
       Female
                 18.7
                        18.0 Left
                                    L on R
                                               NA
                                                      Left None Never 170.00
                                                                                Metric
##
   66
         Male
                 19.5
                        19.8 Right Neither
                                               NA
                                                     Right Freq Never 183.00
                                                                                Metric
##
   67
                 19.0
                        19.1 Right
                                               NA Neither Freq Never 172.00
       Female
                                    L on R
                                                                                Metric
                        18.0 Right
## 68
       Female
                 18.5
                                    R on L
                                               64
                                                     Right Freq Never
                                                                           NA
                                                                                   <NA>
## 69
         Male
                 19.0
                        19.0 Right
                                    L on R
                                               NA
                                                     Right Some Never 180.00
                                                                                Metric
## 70
         Male
                 21.0
                        19.5 Right
                                    L on R
                                               80
                                                      Left None <NA>
                                                                           NA
                                                                                   <NA>
                                                     Right Freq Heavy 176.00
## 72
                 19.4
                        19.5 Right
                                               NA
         Male
                                    R on L
                                                                                Metric
## 78
       Female
                 18.6
                        18.0 Right
                                    L on R
                                               NA Neither Freq Heavy 165.10 Imperial
## 80
         Male
                 20.0
                        20.5 Right
                                    L on R
                                               NA
                                                     Right Freq Never 185.42 Imperial
         Male
## 81
                 19.5
                        19.5 Left
                                                      Left Some Never
                                    R on L
                                               66
                                                                           NΑ
                                                                                   <NA>
## 83
       Female
                 17.5
                        17.5 Right
                                    R on L
                                               98
                                                      Left Freq Never
                                                                           NA
                                                                                   <NA>
## 84
       Female
                 17.0
                        17.4 Right
                                               NA Neither Some Never
                                                                                   <NA>
                                     R on L
                                                                           NA
## 90
       Female
                 18.0
                        17.7 Left
                                     R on L
                                               92
                                                      Left Some Never
                                                                           NA
                                                                                   <NA>
## 92
                 17.5
                        18.0 Right Neither
       Female
                                               NA
                                                     Right Some Never
                                                                           NA
                                                                                   <NA>
## 94
       Female
                 18.2
                        18.5 Right
                                               NA
                                                     Right Some Never 168.00
                                                                                Metric
                                     R on L
## 96
       Female
                 19.0
                        18.8 Right L on R
                                               NA
                                                     Right Some Never
                                                                           NA
                                                                                   <NA>
## 99
                 19.5
                        19.4 Right Neither
         Male
                                               NA
                                                     Right Freq Never 165.00
                                                                                Metric
## 101
                 21.9
                        22.2 Right R on L
         Male
                                               NA
                                                     Right Some Never 187.00
                                                                                Metric
## 103 Female
                        16.0 Right Neither
                 16.0
                                               NA
                                                     Right Some Never 159.00
                                                                                Metric
## 107 Female
                 16.2
                        16.4 Right R on L
                                               NA
                                                     Right Freq Occas 172.00
                                                                                Metric
## 108 Female
                 17.0
                        15.9 Right
                                    R on L
                                               85
                                                     Right Freq Never
                                                                           NA
                                                                                   <NA>
## 121
         Male
                 20.0
                        20.0 Right
                                    R on L
                                               80 Neither Freq Occas
                                                                           NA
                                                                                   <NA>
## 126
         Male
                 19.3
                        19.4 Right R on L
                                               NA
                                                     Right Freq Never 180.34 Imperial
## 133 Female
                 18.9
                        20.0 Right R on L
                                               86
                                                     Right Some Never
                                                                           NA
                                                                                   < NA >
```

```
## 137
         <NA>
                19.8
                       19.0 Left L on R
                                             73 Neither Freq Never 172.00
                                                                             Metric
## 139
                20.0
                       19.5 Right L on R
                                                  Right Freq Never 170.00
         Male
                                             NA
                                                                             Metric
                                                  Right None Never 165.00
## 142 Female
                18.3
                       19.0 Right R on L
                                                                             Metric
                       15.5 Right L on R
## 157
                14.0
                                             NA Neither Freq Heavy
                                                                               <NA>
         Male
                                                                        NA
## 159
         Male
                20.0
                       20.5 Right R on L
                                             NA
                                                  Right None Never 187.96 Imperial
## 162
                18.1
                       18.2 Left Neither
                                             NA
                                                  Right Some Never 168.00
         Male
                                                                             Metric
                       19.1 Right Neither
                                                  Right Some Never 177.00
## 165
         Male
                19.1
                                             NA
                                                                             Metric
                       18.5 Right L on R
## 169
         Male
                19.0
                                             NA Neither Freq Never 189.00
                                                                             Metric
## 171 Female
                16.5
                       17.0 Right L on R
                                             NA
                                                  Right Some Never 168.00
                                                                             Metric
                       15.5 Right Neither
                                             50
                                                  Right Some Regul
## 173 Female
                15.5
                                                                        NA
                                                                               <NA>
## 179 Female
                20.5
                       20.5 Right R on L
                                             NA
                                                  Left Freq Regul
                                                                        NA
                                                                               <NA>
## 195 Female
                16.7
                       15.1 Right Neither
                                             NA
                                                  Right None Never 157.48 Imperial
## 203 Female
                18.8
                       17.8 Right R on L
                                             76
                                                  Right Some Never
                                                                        NA
                                                                               <NA>
                20.8
                       20.7 Right
                                             NA Neither Freq Never 171.50
## 210 Female
                                   R on L
                                                                             Metric
## 213
                18.0
                       18.5 Right R on L
                                             78
                                                  Right Freq Never
         Male
                                                                        NA
                                                                               <NA>
## 216
         Male
                19.5
                       20.0 Right Neither
                                             NA
                                                  Right Some Never 170.00
                                                                             Metric
                16.3
                       16.2 Right L on R
                                                  Right None Never
## 217 Female
                                             NA
                                                                        NA
                                                                               <NA>
## 219 Female
                17.0
                       17.3 Right L on R
                                             NA Neither Freq Never 173.00
                                                                             Metric
## 221
                23.2
                       23.3 Right L on R
                                                  Right None Heavy 171.00
         Male
                                             NA
                                                                             Metric
## 224 Female
                17.5
                       17.6 Right L on R
                                             NA
                                                  Right Freq Never 150.00
                                                                             Metric
## 225 Female
                17.6
                       17.2 Right L on R
                                             NA
                                                  Right Some Never
                                                                        NA
                                                                               <NA>
## 226 Female
                17.5
                       17.8 Right
                                             96
                                                  Right Some Never
                                                                               <NA>
                                   R on L
## 232
                18.0
                       16.0 Right R on L
                                                  Right Some Never 180.34 Imperial
         Male
                                             NA
## 235 Female
                17.5
                       16.5 Right R on L
                                             NA
                                                  Right Some Never 170.00
##
          Age
## 3
      16.917
## 4
       20.333
## 12 18.250
## 13 18.750
## 15 17.167
## 16 17.167
## 19
     19.750
## 25 19.167
## 26 17.583
## 29
      21.917
## 31 41.583
## 35
      17.750
## 37
      19.000
## 40
      19.917
## 41 17.500
## 43 28.583
## 45 17.417
## 46 18.500
## 56 18.333
## 58
     17.417
## 60
     18.417
## 64
     19.833
## 66
     18.000
## 67
      30.667
## 68
      16.917
## 69
      19.917
## 70 18.333
## 72 17.833
## 78 17.167
```

```
## 80 18.750
## 81
      16.750
## 83
      17.667
## 84
       17.167
## 90
       17.583
## 92
      18.000
## 94
      17.083
## 96
      17.083
## 99
       18.083
## 101 18.917
## 103 20.833
## 107 17.000
## 108 18.500
## 121 17.500
## 126 19.833
## 133 19.083
## 137 21.500
## 139 21.417
## 142 21.083
## 157 21.083
## 159 19.667
## 162 21.167
## 165 19.917
## 169 17.417
## 171 73.000
## 173 18.500
## 179 19.250
## 195 18.167
## 203 18.583
## 210 18.500
## 213 17.500
## 216 21.250
## 217 19.250
## 219 19.167
## 221 20.917
## 224 20.750
## 225 19.917
## 226 18.667
## 232 20.750
## 235 18.583
```

3. Create a data frame 'newsurvey' that contains the survey data after removing the na values. Use it for answering further queries

```
newsurvey<-na.omit(survey)</pre>
```

4. How many male and female students participated in the survey?

```
table(newsurvey["Sex"])
```

```
## ## Female Male ## 84 84
```

5. How many the left and right handers are there?

```
table(newsurvey["W.Hnd"])
```

6. Find the relative frequency distribution of left and right handers and display them with the precision of two decimal places.

```
round(table(newsurvey["W.Hnd"])/length(newsurvey$W.Hnd),2)
```

```
## Left Right
## 0.07 0.93
```

7. Display the male left hander and female left hander in the column format.

```
t <- tapply(newsurvey$W.Hnd, newsurvey$Sex, table)
t<-unname(unlist(t))
d <-
   data.frame(
    male_left_hander = c(t[3]),
   female_left_hander = c(t[1])
)
d</pre>
```

```
## male_left_hander female_left_hander
## 1 7 5
```

8. What percentage of male left handers never smokes?

```
install.packages("dplyr")
```

## Installing package into '/home/abhishek\_n\_n\_20bce1025/R/x86\_64-pc-linux-gnu-library/4.1'
## (as 'lib' is unspecified)

```
library("dplyr")
```

```
##
## Attaching package: 'dplyr'

## The following object is masked from 'package:MASS':
##
## select

## The following objects are masked from 'package:stats':
##
## filter, lag
```

```
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

male_left_never=length(filter(newsurvey, Sex=="Male" & W.Hnd=="Left" & Smoke=="Never"))
male_left=length(filter(newsurvey, Sex=="Male" & W.Hnd=="Left"))
male_left_never/male_left*100
```

## [1] 100