RWorksheet_asenjo#4a

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```
1.
```

```
ShoeSize Height Gender
##
## 1
            6.5
                   66.0
## 2
            9.0
                   68.0
                              F
## 3
            8.5
                   64.5
                              F
## 4
            8.5
                   65.0
                              F
## 5
           10.5
                   70.0
                              Μ
## 6
            7.0
                   64.0
                              F
## 7
            9.5
                   70.0
## 8
            9.0
                   71.0
                              F
## 9
           13.0
                   72.0
                              М
            7.5
                   64.0
## 10
## 11
           10.5
                   74.5
                              М
## 12
            8.5
                   67.0
                              F
## 13
           12.0
                   71.0
## 14
           10.5
                   71.0
                              М
## 15
           13.0
                   77.0
                              М
## 16
           11.5
                   72.0
                              М
## 17
            8.5
                   59.0
## 18
            5.0
                   62.0
                              F
## 19
           10.0
                   72.0
                              М
## 20
            6.5
                   66.0
                              F
## 21
            7.5
                   64.0
                              F
## 22
            8.5
                   67.0
                              М
## 23
           10.5
                   73.0
                              М
## 24
            8.5
                   69.0
## 25
           10.5
                   72.0
                              М
## 26
           11.0
                   70.0
                              М
## 27
            9.0
                   69.0
                              Μ
## 28
           13.0
                   70.0
```

b.

a. The data shows that it has three columns namely, shoesize, height and, gender with 28 rows.

```
s <- subset(HouseHoldData, Gender == "M" & ShoeSize&Height)
s
##
      ShoeSize Height Gender
## 5
          10.5
                  70.0
                             Μ
## 9
          13.0
                  72.0
                             Μ
## 11
          10.5
                  74.5
                             М
## 13
          12.0
                  71.0
                             Μ
          10.5
## 14
                  71.0
                             Μ
## 15
          13.0
                  77.0
                             Μ
          11.5
                  72.0
## 16
                             М
## 19
          10.0
                  72.0
                             М
## 22
           8.5
                  67.0
                             Μ
## 23
          10.5
                  73.0
                             М
## 25
          10.5
                  72.0
                             Μ
## 26
          11.0
                  70.0
                             Μ
## 27
           9.0
                  69.0
                             Μ
                  70.0
          13.0
## 28
                             Μ
s2 <- subset(HouseHoldData, Gender == "F" & ShoeSize&Height)
s2
##
      ShoeSize Height Gender
## 1
           6.5
                  66.0
                             F
## 2
           9.0
                  68.0
                             F
## 3
           8.5
                  64.5
                             F
## 4
           8.5
                  65.0
                             F
## 6
           7.0
                  64.0
                             F
## 7
           9.5
                  70.0
                             F
## 8
           9.0
                  71.0
                             F
## 10
           7.5
                  64.0
                             F
           8.5
## 12
                  67.0
                             F
## 17
           8.5
                  59.0
                             F
           5.0
                  62.0
                             F
## 18
## 20
           6.5
                  66.0
                             F
                             F
## 21
           7.5
                  64.0
## 24
           8.5
                  69.0
                             F
  c.
sm <- mean(HouseHoldData$ShoeSize)</pre>
## [1] 9.410714
hm <- mean(HouseHoldData$Height)</pre>
hm
## [1] 68.57143
  d. No, because there are some respondents that is taller but has smaller shoe size that others who are
     shorter.
  2.
months_vector <- c("March", "April", "January", "November", "January", "September", "October", "Septemb</pre>
factor_months_vector <- factor(months_vector)</pre>
```

```
factor_months_vector
    [1] March
                              January
                                         November
                                                              September October
                   April
                                                    January
                                                              November
##
  [8] September November
                              August
                                                    November
                                         January
                                                                         February
## [15] May
                   August
                              July
                                         December
                                                   August
                                                              August
                                                                         September
## [22] November February April
## 11 Levels: April August December February January July March May ... September
  3. Yes, they are both useful because it shows the length, class, mode, and the number of repetitions of the
     character of two vectors.
summary(months_vector)
##
      Length
                  Class
                              Mode
##
          24 character character
summary(factor_months_vector)
       April
##
                 August December February
                                                January
                                                              July
                                                                        March
                                                                                     May
##
                                                       3
                                                                 1
                                                                            1
                                                                                       1
    November
                October September
##
           5
                      1
  4.
direction <- c("East", "West", "North")</pre>
frequency \leftarrow c(1, 4, 3)
factor_data <- direction</pre>
new_order_data <- factor(factor_data, levels = c("East", "West", "North"))</pre>
new_order_data
## [1] East West North
## Levels: East West North
  5.
import_march <- read.table("import_march.csv", header = TRUE, sep =",")</pre>
  b.
import_march
##
     Students Strategy1 Strategy2 Strategy3
## 1
         Male
                       8
                                 10
## 2
                       4
                                  8
                                             6
## 3
                       0
                                  6
                                             4
## 4
                      14
                                  4
                                            15
       Female
## 5
                      10
                                  2
                                            12
## 6
                       6
                                  0
                                             9
```