RWorksheet_Layson#4a

Gilmar M. Layson

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#1. #a.

```
##
      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
## 5
           10.5
                  70.0
                              М
## 6
            7.0
                   64.0
                              F
## 7
            9.5
                  70.0
                              F
                              F
## 8
            9.0
                  71.0
## 9
           13.0
                  72.0
                             Μ
           7.5
                   64.0
                             F
## 10
## 11
           10.5
                  74.5
                             М
## 12
           8.5
                  67.0
                              F
## 13
           12.0
                  71.0
                             Μ
           10.5
## 14
                  71.0
                             М
## 15
           13.0
                  77.0
                             Μ
## 16
           11.5
                  72.0
                             Μ
## 17
            8.5
                  59.0
                              F
## 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
                             Μ
           10.5
## 23
                  73.0
                             Μ
## 24
            8.5
                   69.0
                              F
## 25
                  72.0
           10.5
                             М
## 26
           11.0
                  70.0
                             Μ
## 27
           9.0
                  69.0
                             Μ
## 28
           13.0
                  70.0
                             М
```

#b.

```
male <- subset(House_Hold, Gender == "M")</pre>
male
##
      ShoeSize Height Gender
## 5
           10.5
                  70.0
                             М
           13.0
                  72.0
## 9
                             Μ
## 11
           10.5
                  74.5
                             Μ
## 13
           12.0
                  71.0
                             М
## 14
           10.5
                  71.0
                             Μ
## 15
           13.0
                  77.0
                             Μ
## 16
           11.5
                  72.0
                             Μ
## 19
           10.0
                  72.0
                             М
           8.5
                  67.0
## 22
                             Μ
## 23
           10.5
                  73.0
                             М
## 25
           10.5
                  72.0
                             Μ
## 26
           11.0
                  70.0
                             М
## 27
           9.0
                  69.0
                             М
## 28
           13.0
                  70.0
                             Μ
female <- subset(House_Hold, Gender == "F")</pre>
female
##
      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
            9.0
## 8
                  71.0
                             F
## 10
            7.5
                  64.0
                             F
## 12
            8.5
                  67.0
                             F
            8.5
                  59.0
## 17
                             F
## 18
            5.0
                  62.0
                             F
## 20
            6.5
                  66.0
                             F
## 21
            7.5
                  64.0
                             F
## 24
            8.5
                  69.0
                             F
#c.
mean(ShoeSize)
## [1] 9.410714
mean(Height)
```

[1] 68.57143

#d. #Shoe size and height are both characteristics of a person, they are independent of each other. There's no direct connection between how big someone's feet are and how tall they are.

#2.

```
months <- c("March", "April", "January", "November", "January", "September", "October", "September", "N
factor_months_vector <- factor(months)</pre>
factor_months_vector
                                                            September October
##
   [1] March
                  April
                             January
                                       November January
                             August
## [8] September November
                                       January
                                                  November
                                                            November February
                                       December August
## [15] May
                  August
                             July
                                                            August
                                                                       September
## [22] November February
                            April
## 11 Levels: April August December February January July March May ... September
#3.
summary(months)
##
      Length
                 Class
                             Mode
##
          24 character character
summary(factor_months_vector)
##
       April
                August December February
                                              January
                                                            July
                                                                     March
                                                                                  May
##
                     4
                                          2
                                                     3
                                                                          1
           2
                                1
                                                               1
##
  November
               October September
##
           5
                     1
#4.
factor_data <- c("East", "West", "North")</pre>
freq <- c(1,4,3)
new_order_data <- factor(factor_data, levels = c("East", "West", "North"))</pre>
new_order_data
## [1] East West North
## Levels: East West North
f_data <- data.frame(Direction = factor_data, Frequency = freq)</pre>
f_data
     Direction Frequency
##
## 1
          East
                        1
## 2
          West
                        4
## 3
         North
#5.
import_march <- read.table("C:\\Users\\User\\OneDrive\\Desktop\\Rworksheet\\Worksheet_4\\import_march.c</pre>
import_march
```

##		Students	Strategy.1	Strategy.2	Strategy.3
##	1	Male	8	10	8
##	2		4	8	6
##	3		0	6	4
##	4	Female	14	4	15
##	5		10	2	12
##	6		6	0	9