## RWorksheet\_Aposaga#4a

## John Philipp Aposaga

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#1 #a

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

#b

```
SHG_male <- subset(SHG, Gender == "M")</pre>
SHG_male
##
      Shoe Size Height Gender
## 5
            10.5
                   70.0
                              М
## 9
            13.0
                   72.0
                              М
## 11
            10.5
                   74.5
                              М
            12.0
## 13
                   71.0
                              М
## 14
            10.5
                   71.0
                              М
## 15
            13.0
                   77.0
                              Μ
## 16
            11.5
                   72.0
                              М
## 19
            10.0
                   72.0
                              М
             8.5
## 22
                   67.0
                              М
## 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
                              М
SHG_female <- subset(SHG, Gender == "F")</pre>
SHG_female
##
      Shoe Size Height Gender
## 1
             6.5
                   66.0
## 2
                              F
             9.0
                   68.0
                              F
## 3
             8.5
                   64.5
                              F
## 4
             8.5
                   65.0
                              F
## 6
             7.0
                   64.0
## 7
             9.5
                   70.0
                              F
                              F
## 8
             9.0
                   71.0
## 10
             7.5
                   64.0
                              F
                              F
## 12
             8.5
                   67.0
                              F
## 17
             8.5
                   59.0
## 18
             5.0
                   62.0
                              F
                              F
## 20
             6.5
                   66.0
## 21
             7.5
                   64.0
                              F
                              F
## 24
             8.5
                   69.0
#c
mean(shoeSize)
## [1] 9.410714
mean(Height)
```

```
## [1] 68.57143
```

#d #There is no relationship between the two variables, since a person's shoe size is different from their height, although they are both attributes of a respondent.

#2

```
months <- c("March", "April", "January", "November", "January", "September", "October", "September", "N
factor_months_vector <- factor(months)</pre>
factor_months_vector
                             January
                                       November January
                                                            September October
##
   [1] March
                  April
                             August
## [8] September November
                                       January
                                                 November
                                                            November 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
summary(months)
##
      Length
                 Class
                             Mode
##
          24 character character
summary(factor_months_vector)
##
       April
                August December February
                                              January
                                                            July
                                                                     March
                                                                                  May
##
                     4
                                          2
                                                    3
                                                               1
                                                                         1
                                                                                    1
           2
                                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
fdata <- data.frame(Direction = factor_data, Frequency = freq)</pre>
fdata
##
     Direction Frequency
## 1
          East
                       1
## 2
          West
                        4
## 3
         North
                       3
#5
importmarch <- read.table("import_march.csv", header = TRUE, sep = ",", stringsAsFactors = FALSE)</pre>
importmarch
```

##		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