

RWorkSheet_Calopez#3b

2023-10-11

#1a

```
dfRespo <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
dfSex <- c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,1,2)
dfFathersOccu <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
dfPerson_At_Home <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
dfSiblingsatSchool <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
dfTypesofHouses <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)

dfHouseholdData <- data.frame("Respondents" = dfRespo,
                              "Sex" = dfSex,
                              "Fathers Occupation" = dfFathersOccu,
                              "Persons at Home" = dfPerson_At_Home,
                              "Siblings at School" = dfSiblingsatSchool,
                              "Types of Houses" = dfTypesofHouses)

dfHouseholdData
```

##	Respondents	Sex	Fathers.Occupation	Persons.at.Home	Siblings.at.School
## 1	1	2	1	5	6
## 2	2	2	3	7	4
## 3	3	1	3	3	4
## 4	4	2	3	8	1
## 5	5	2	1	5	2
## 6	6	2	2	9	1
## 7	7	2	3	6	5
## 8	8	2	1	7	3
## 9	9	2	1	8	1
## 10	10	2	1	4	2
## 11	11	1	3	7	3
## 12	12	2	2	5	2
## 13	13	2	1	4	5
## 14	14	2	3	7	5
## 15	15	2	3	8	2
## 16	16	2	1	8	1
## 17	17	2	3	3	2
## 18	18	2	1	11	5
## 19	19	1	2	7	3
## 20	20	2	1	6	2
##	Types.of.Houses				
## 1		1			
## 2		2			
## 3		3			
## 4		1			
## 5		1			
## 6		3			

```
## 7          3
## 8          1
## 9          2
## 10         3
## 11         2
## 12         3
## 13         2
## 14         2
## 15         3
## 16         3
## 17         3
## 18         3
## 19         3
## 20         2
```

```
#1b
```

```
#the data is about a Household occupants
```

```
summary(dfHouseholdData)
```

```
## Respondents      Sex      Fathers.Occupation Persons.at.Home
## Min.   : 1.00   Min.   :1.00   Min.   :1.00      Min.   : 3.0
## 1st Qu.: 5.75   1st Qu.:2.00   1st Qu.:1.00      1st Qu.: 5.0
## Median :10.50   Median :2.00   Median :2.00      Median : 7.0
## Mean   :10.50   Mean   :1.85   Mean   :1.95      Mean   : 6.4
## 3rd Qu.:15.25   3rd Qu.:2.00   3rd Qu.:3.00      3rd Qu.: 8.0
## Max.   :20.00   Max.   :2.00   Max.   :3.00      Max.   :11.0
## Siblings.at.School Types.of.Houses
## Min.   :1.00      Min.   :1.0
## 1st Qu.:2.00      1st Qu.:2.0
## Median :2.50      Median :2.5
## Mean   :2.95      Mean   :2.3
## 3rd Qu.:4.25      3rd Qu.:3.0
## Max.   :6.00      Max.   :3.0
```

```
#c
```

```
#no, its 2.95
```

```
#d
```

```
first_second <- dfHouseholdData[1:2,]
first_second
```

```
## Respondents Sex Fathers.Occupation Persons.at.Home Siblings.at.School
## 1          1  2              1              5              6
## 2          2  2              3              7              4
## Types.of.Houses
## 1          1
## 2          2
```

```
#e
```

```
third5and2nd4 <- dfHouseholdData[c(3,5),c(2,4)]
third5and2nd4
```

```
## Sex Persons.at.Home
## 3  1              3
```

```
## 5      2      5

#f
types_houses <- dfHouseholdData[,1]
types_houses

## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

#g

dfMaleFatherOccu <- dfHouseholdData[dfHouseholdData$Sex == 1 & dfHouseholdData$Fathers.Occupation == 1,
dfMaleFatherOccu

## [1] Sex      Fathers.Occupation
## <0 rows> (or 0-length row.names)

#h

dfFemaleSiblings <- dfHouseholdData[dfHouseholdData$Sex == 2 & dfHouseholdData$Siblings.at.School >= 5,
dfFemaleSiblings

##      Sex Siblings.at.School
## 1      2                  6
## 7      2                  5
## 13     2                  5
## 14     2                  5
## 18     2                  5

#2

dfofNum2 = data.frame(Ints=integer(),
                      Doubles=double(),
                      Characters=character(),
                      Logicals=logical(),
                      Factors=factor(),
                      stringsAsFactors=FALSE)

print("Structure of the empty dataframe:")

## [1] "Structure of the empty dataframe:"

print(str(dfofNum2))

## 'data.frame': 0 obs. of 5 variables:
## $ Ints      : int
## $ Doubles   : num
## $ Characters: chr
## $ Logicals  : logi
## $ Factors   : Factor w/ 0 levels:
## NULL

#it prints the structure of the dataframe

#3

df2Respondents <- c(1,2,3,4,5,6,7,8,9,10)
df2Sex <- c("Male", "Female", "Female", "Male", "Male", "Female", "Female", "Male", "Female", "Male")
```

```

df2FathersOcc <- c(1,2,3,3,1,2,2,3,1,3)
df2PersonatHome<- c(5,7,3,8,6,4,4,2,11,6)
df2SiblingsatSch <- c(2,3,0,5,2,3,1,2,6,2)
df2TypeofHouses <- c("Wood", "Congrete", "Congrete", "Wood", "Semi-concrete", "Semi-concrete", "Wood", "Semi-concrete", "Wood", "Congrete")

df2HouseholdData <- data.frame("Respondetns" = df2Respondents,
                              "Sex" = df2Sex,
                              "Fathers Occupation" = df2FathersOcc,
                              "Person at Home" = df2PersonatHome,
                              "Siblings at Schoo" = df2SiblingsatSch,
                              "Type of Houses" = df2TypeofHouses)

df2HouseholdData

```

```

##      Respondetns      Sex Fathers.Occupation Person.at.Home Siblings.at.Schoo
## 1             1    Male                1             5             2
## 2             2 Female                2             7             3
## 3             3 Female                3             3             0
## 4             4    Male                3             8             5
## 5             5    Male                1             6             2
## 6             6 Female                2             4             3
## 7             7 Female                2             4             1
## 8             8    Male                3             2             2
## 9             9 Female                1            11             6
## 10            10    Male                3             6             2
##      Type.of.Houses
## 1             Wood
## 2             Congrete
## 3             Congrete
## 4             Wood
## 5      Semi-concrete
## 6      Semi-concrete
## 7             Wood
## 8      Semi-concrete
## 9      Semi-concrete
## 10            Congrete

```

```

write.csv(df2HouseholdData, file = "HouseholdData.csv")

```

#3a

```

csvHouseholdData <- read.csv(file = "HouseholdData.csv")
csvHouseholdData

```

```

##      X Respondetns      Sex Fathers.Occupation Person.at.Home Siblings.at.Schoo
## 1     1             1    Male                1             5             2
## 2     2             2 Female                2             7             3
## 3     3             3 Female                3             3             0
## 4     4             4    Male                3             8             5
## 5     5             5    Male                1             6             2
## 6     6             6 Female                2             4             3
## 7     7             7 Female                2             4             1
## 8     8             8    Male                3             2             2
## 9     9             9 Female                1            11             6
## 10    10            10    Male                3             6             2

```

```
##      Type.of.Houses
## 1          Wood
## 2      Congrete
## 3      Congrete
## 4          Wood
## 5  Semi-concrete
## 6  Semi-concrete
## 7          Wood
## 8  Semi-concrete
## 9  Semi-concrete
## 10      Congrete
```

#3b

```
csvHouseholdDataSex <- as.integer(factor(csvHouseholdData$Sex, levels = c("Male", "Female")))
csvHouseholdDataSex
```

```
## [1] 1 2 2 1 1 2 2 1 2 1
```

#3c

```
csvHouseholdDataTypeofHouses <- as.integer(factor(csvHouseholdData$Type.of.Houses, levels = c("Wood", "Semi-concrete", "Congrete")))
csvHouseholdDataTypeofHouses
```

```
## [1] 1 2 2 1 3 3 1 3 3 2
```

#3d

#its already on int type

```
csvHouseholdData$Fathers.Occupation
```

```
## [1] 1 2 3 3 1 2 2 3 1 3
```

```
csvHouseholdDataFathersOcc <- as.integer(factor(csvHouseholdData$Fathers.Occupation, levels = c("")))
csvHouseholdDataFathersOcc
```

```
## [1] NA NA NA NA NA NA NA NA NA NA
```

#3e

```
csvHouseholdDataFemaleFatherOcc <- csvHouseholdData[csvHouseholdData$Sex == "Female" & csvHouseholdData$Fathers.Occupation == 2]
csvHouseholdDataFemaleFatherOcc
```

```
##      Sex Fathers.Occupation
## 2 Female                2
## 6 Female                2
## 7 Female                2
```

#3f

```
csvHouseholdDataSibmorethan5 <- csvHouseholdData[csvHouseholdData$Siblings.at.School >= 5, c(2,6)]
csvHouseholdDataSibmorethan5
```

```
##      Respondents Siblings.at.School
## 4              4              5
## 9              9              6
```

#4

The majority of the other sentiments on this day, July 14, are negative. This indicates that some sub

Even though all attitudes increased on this day, July 15, the negative sentiment is still at its grea

On these days, negative attitudes are still prevalent on July 17 and July 18, but neutral and positiv

On July 20, all sentiments reached their lowest points, although there were still more negative feeli

All emotions are higher on this day, July 21, with the negative still dominating. This could imply th

#This information can lead us to the conclusion that public opinion is subject to outside influences an