

Worksheet-3b

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```
Respondents <- c(seq(1,20))
Sex <- c(2,2,1,2,2,2,2,2,2,1,2,2,2,2,2,1,2)
FathersOccupation <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
PersonsatHome <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
SiblingsatSchool <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
TypesofHouse <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)
```

```
df <- data.frame(Respondents, Sex, FathersOccupation, PersonsatHome, SiblingsatSchool, TypesofHouse)
df
```

##	Respondents	Sex	FathersOccupation	PersonsatHome	SiblingsatSchool
## 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
##	TypesofHouse				
## 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
```

b.

```
summary(df)
```

```
## Respondents      Sex      FathersOccupation PersonsatHome
## 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
## SiblingsatSchool TypesofHouse
## 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.

Is the mean number of siblings attending is 5? - No

d,

```
sbst0 <- subset(df[1:2, 1:6])
sbst0
```

```
## Respondents Sex FathersOccupation PersonsatHome SiblingsatSchool TypesofHouse
## 1          1  2              1              5              6              1
## 2          2  2              3              7              4              2
```

e.

```
Respondents <- c(seq(1,20))
Sex <- c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,1,2)
FathersOccupation <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
PersonsatHome <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
SiblingsatSchool <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
TypesofHouse <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)
```

```
df <- data.frame(Respondents, Sex, FathersOccupation, PersonsatHome, SiblingsatSchool, TypesofHouse)
content4 <- subset(df[c(3,5), c(2,4)])
content4
```

```
##      Sex PersonsatHome
## 3      1              3
## 5      2              5
```

f.

```
types_houses <- df$TypesofHouse
types_houses
```

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

g.

```
farmer <- subset(df[c(1:20), c(2,3)])
farmer
```

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

```
male <- subset(df, Sex == '1' & FathersOccupation == '1')
male
```

```
## [1] Respondents      Sex      FathersOccupation PersonsatHome
## [5] SiblingsatSchool  TypesofHouse
## <0 rows> (or 0-length row.names)
```

```
malefarmer <- male[c(2,3)]
malefarmer
```

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

h.

```
shl <- subset(df[c(1:20), c(2,5)])
shl
```

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

```
female <- shl[df$SiblingsatSchool >= '5',]
female
```

```
##      Sex SiblingsatSchool
## 1      2                6
## 7      2                5
## 13     2                5
## 14     2                5
## 18     2                5
```

2.

```
df = 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(df))
```

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

```
NULL
```

```
## NULL
```

a.

Describe the results. - The data frame has zero columns, 5 rows and zero level.

3.

Figure 1 : Sentiments of Tweets per day - Donald Trump

- There are more negative comments than neutral and positive comments from July 14 to July

21.