

Work sheet #3b

Kenan Jake Jimenez

2025-10-13

1. Create a data frame using the table below.

- Write the codes.

```
Respondents <- 1:20
Sex <- c(2,2,1,2,2,2,2,2,2,1,2,2,2,2,2,2,2,1,2)
Fathers_Occupation <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
Persons_at_Home <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
Siblings_at_School <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
Types_of_Houses <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)

Sex <- factor(Sex,
               levels = c(1,2),
               labels = c("Male", "Female"))

Fathers_Occupation <- factor(Fathers_Occupation,
                               levels = c(1,2,3),
                               labels = c("Farmer", "Driver", "Others"))

Types_of_Houses <- factor(Types_of_Houses,
                           levels = c(1,2,3),
                           labels = c("Wood", "Semi-Concrete", "Concrete"))

df <- data.frame(
  Respondents,
  Sex,
  Fathers_Occupation,
  Persons_at_Home,
  Siblings_at_School,
  Types_of_Houses
)
df
```

```
##      Respondents     Sex Fathers_Occupation Persons_at_Home Siblings_at_School
## 1              1 Female          Farmer             5                  6
## 2              2 Female         Others             7                  4
## 3              3   Male          Others             3                  4
## 4              4 Female         Others             8                  1
## 5              5 Female          Farmer             5                  2
## 6              6 Female         Driver             9                  1
## 7              7 Female         Others             6                  5
## 8              8 Female          Farmer             7                  3
```

```

## 9      9 Female    Farmer     8      1
## 10     10 Female   Farmer     4      2
## 11     11 Male     Others     7      3
## 12     12 Female   Driver     5      2
## 13     13 Female   Farmer     4      5
## 14     14 Female   Others     7      5
## 15     15 Female   Others     8      2
## 16     16 Female   Farmer     8      1
## 17     17 Female   Others     3      2
## 18     18 Female   Farmer    11      5
## 19     19 Male     Driver     7      3
## 20     20 Female   Farmer     6      2
##   Types_of_Houses
## 1      Wood
## 2      Semi-Concrete
## 3      Concrete
## 4      Wood
## 5      Wood
## 6      Concrete
## 7      Concrete
## 8      Wood
## 9      Semi-Concrete
## 10     Concrete
## 11     Semi-Concrete
## 12     Concrete
## 13     Semi-Concrete
## 14     Semi-Concrete
## 15     Concrete
## 16     Concrete
## 17     Concrete
## 18     Concrete
## 19     Concrete
## 20     Semi-Concrete

```

b. Describe the data. Get the structure or the summary of the data

```
str(df)
```

```

## 'data.frame': 20 obs. of 6 variables:
## $ Respondents : int 1 2 3 4 5 6 7 8 9 10 ...
## $ Sex         : Factor w/ 2 levels "Male","Female": 2 2 1 2 2 2 2 2 2 2 ...
## $ Fathers_Occupation: Factor w/ 3 levels "Farmer","Driver",...: 1 3 3 3 1 2 3 1 1 1 ...
## $ Persons_at_Home : num 5 7 3 8 5 9 6 7 8 4 ...
## $ Siblings_at_School: num 6 4 4 1 2 1 5 3 1 2 ...
## $ Types_of_Houses : Factor w/ 3 levels "Wood","Semi-Concrete",...: 1 2 3 1 1 3 3 1 2 3 ...

```

```
summary(df)
```

```

##   Respondents      Sex   Fathers_Occupation Persons_at_Home
## Min.   : 1.00   Male  : 3   Farmer:9          Min.   : 3.0
## 1st Qu.: 5.75  Female:17  Driver:3          1st Qu.: 5.0
## Median :10.50                           Others:8          Median : 7.0

```

```
##  Mean    :10.50          Mean    : 6.4
##  3rd Qu.:15.25          3rd Qu.: 8.0
##  Max.   :20.00          Max.   :11.0
##  Siblings_at_School      Types_of_Houses
##  Min.    :1.00           Wood     : 4
##  1st Qu.:2.00           Semi-Concrete: 6
##  Median  :2.50           Concrete :10
##  Mean    :2.95
##  3rd Qu.:4.25
##  Max.   :6.00
```