

# Work sheet #3b

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## 1. Create a data frame using the table below.

a. Write the codes.

```
Respondents <- 1:20
Sex <- c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,1,2)
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			