## RWorksheet\_Llanera#4a

## LlaneraExerRepo

2024-10-30

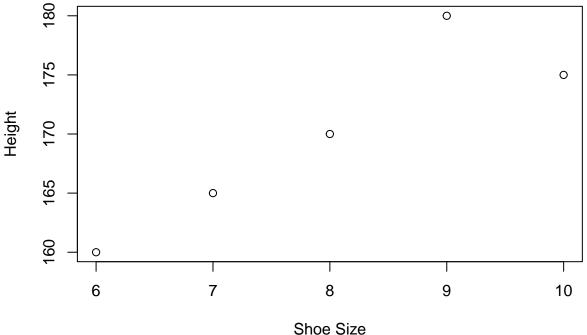
```
1.
  A.
shoe_size \leftarrow c(8, 9, 10, 6, 7)
height \leftarrow c(170, 180, 175, 160, 165)
gender <- c("M", "M", "M", "F", "F")</pre>
data <- data.frame(ShoeSize = shoe_size, Height = height, Gender = gender)</pre>
print(data)
     ShoeSize Height Gender
##
## 1
           8
                  170
## 2
            9
                  180
## 3
            10 175
                            М
## 4
             6
                  160
                            F
## 5
                  165
                            F
  B.
male_data <- subset(data, Gender == "M")</pre>
female_data <- subset(data, Gender == "F")</pre>
print(male_data)
     ShoeSize Height Gender
## 1
             8
                  170
## 2
             9
                  180
                            М
## 3
            10
                  175
                            Μ
print(female_data)
     ShoeSize Height Gender
## 4
             6
                  160
                            F
## 5
             7
                  165
  C.
mean_shoe_size <- mean(data$ShoeSize)</pre>
mean_height <- mean(data$Height)</pre>
print(paste("Mean Shoe Size:", mean_shoe_size))
## [1] "Mean Shoe Size: 8"
print(paste("Mean Height:", mean_height))
```

```
## [1] "Mean Height: 170"

D.

plot(data$ShoeSize, data$Height, main="Shoe Size vs Height", xlab="Shoe Size", ylab="Height")

Shoe Size vs Height
```



2.

```
## [1] March
                  April
                             January
                                       November
                                                 January
                                                            September October
## [8] September November
                            August
                                       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.
direction <- c("East", "West", "North", "West", "North")</pre>
frequency <-c(1, 4, 3, 2, 1)
factorDirection <- factor(direction, levels = c("East", "West", "North"))</pre>
```

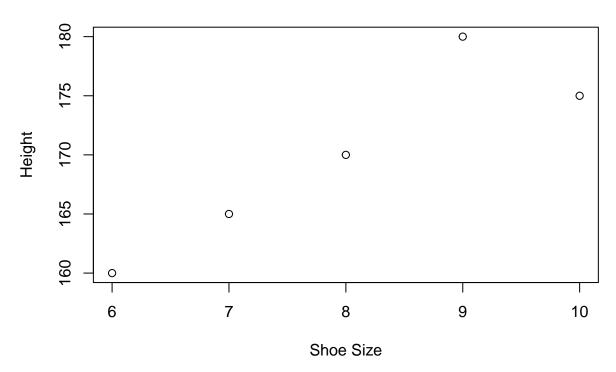
```
## [1] East West North West North
## Levels: East West North
4.
```

print(factorDirection)

```
factor_data <- c("East", "West", "North")
frequency_vector <- c(1, 4, 3)
new_order_data <- factor(factor_data,levels = c("East","West","North"))
print(new_order_data)

## [1] East West North
## Levels: East West North
plot(data$ShoeSize, data$Height, main="Shoe Size vs Height", xlab="Shoe Size", ylab="Height")</pre>
```

## **Shoe Size vs Height**



## **Including Plots**

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.