IT24102779

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Probability and Statistics

Lab 05

1.

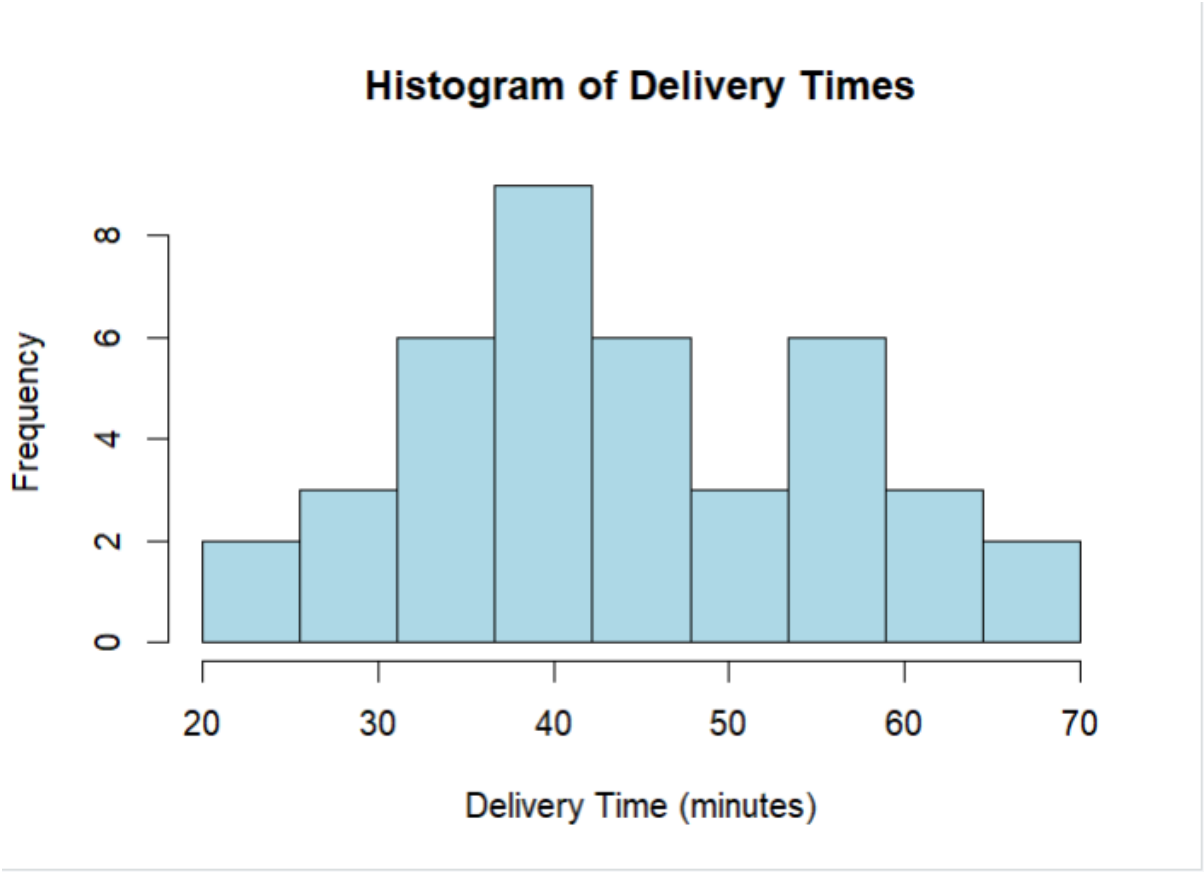
```
setwd("C:\\Users\\damse\\Desktop\\IT24102779\\Lab 05-20250828")
#Exercise
#1
DeliveryTimes <- read.table("Exercise - Lab 05.txt", header = TRUE)
colnames(DeliveryTimes) <- c("DeliveryTime")
print(DeliveryTimes)
times <- DeliveryTimes$DeliveryTime
breaks_seq <- seq(20, 70, length.out = 10)
```

```
> DeliveryTimes <- read.table("Exercise - Lab 05.txt", header = TRUE)
> colnames(DeliveryTimes) <- c("DeliveryTime")
> print(DeliveryTimes)
   DeliveryTime
1            34
2            54
3            47
4            29
5            39
6            61
7            20
8            40
9            57
10           36
11           38
12           44
13           59
```

2.

```
#2
hist(times,
     breaks = breaks_seq,
     right = FALSE,     # right-open intervals
     main = "Histogram of Delivery Times",
     xlab = "Delivery Time (minutes)",
     col = "lightblue",
     border = "black")
```

```
> #2
> hist(times,
+      breaks = breaks_seq,
+      right = FALSE,     # right-open intervals
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time (minutes)",
+      col = "lightblue",
+      border = "black")
>
```



3.

```
#3
#It is look like a Symmetric Histogram.
```

4.

```
#4
hist_data <- hist(times,
                  breaks = breaks_seq,
                  right = FALSE,
                  plot = FALSE,
                  include.lowest = TRUE)
cum_freq <- cumsum(hist_data$counts)
boundaries <- hist_data$breaks[-1]

> hist_data <- hist(times,
+                   breaks = breaks_seq,
+                   right = FALSE,
+                   plot = FALSE,
+                   include.lowest = TRUE)
>
```