

## Lab 05

### DDD

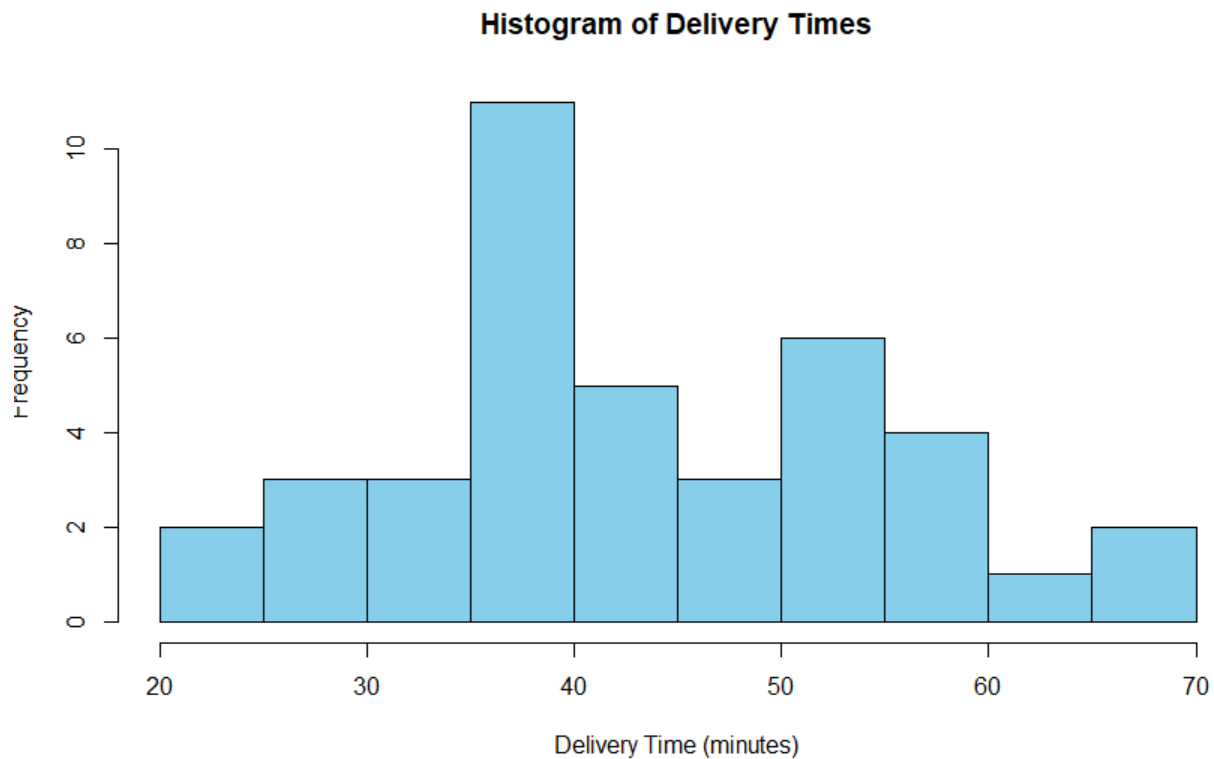
#### 01

```
#1
Delivery_Times <- data.frame(
  Delivery_Time_minutes = c(34, 54, 47, 29, 39, 61, 20, 40, 57, 36, 38, 44, 59, 38,
                           40, 40, 67, 66, 55, 48, 52, 59, 35, 56, 32, 38, 54, 30,
                           43, 36, 42, 20, 27, 38, 54, 43, 45, 51, 36, 47)
)
head(Delivery_Times)
```

```
> getwd()
[1] "C:/Users/it24104116/Desktop/IT24104116"
> Delivery_Times <- data.frame(
+   Delivery_Time_minutes = c(34, 54, 47, 29, 39, 61, 20, 40, 57, 36, 38, 44, 59, 38,
+   +   40, 40, 67, 66, 55, 48, 52, 59, 35, 56, 32, 38, 54, 30,
+   +   43, 36, 42, 20, 27, 38, 54, 43, 45, 51, 36, 47)
+ )
> head(Delivery_Times)
  Delivery_Time_minutes
1                    34
2                    54
3                    47
4                    29
5                    39
6                    61
> |
```

#### 02.

```
#2
hist(Delivery_Times$Delivery_Time_minutes,
     breaks = seq(20, 70, by = 5),
     right = TRUE,
     col = "skyblue",
     main = "Histogram of Delivery Times",
     xlab = "Delivery Time (minutes)",
     ylab = "Frequency")
```



**04.**

```
cumulative_frequency <- cumsum(frequency)

x_values <- seq(25, 70, by = 5)

plot(x_values,
     cumulative_frequency,
     type = "o",
     col = "blue",
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Time (minutes)",
     ylab = "Cumulative Frequency",
     pch = 16)
```

