Lab sheet 05

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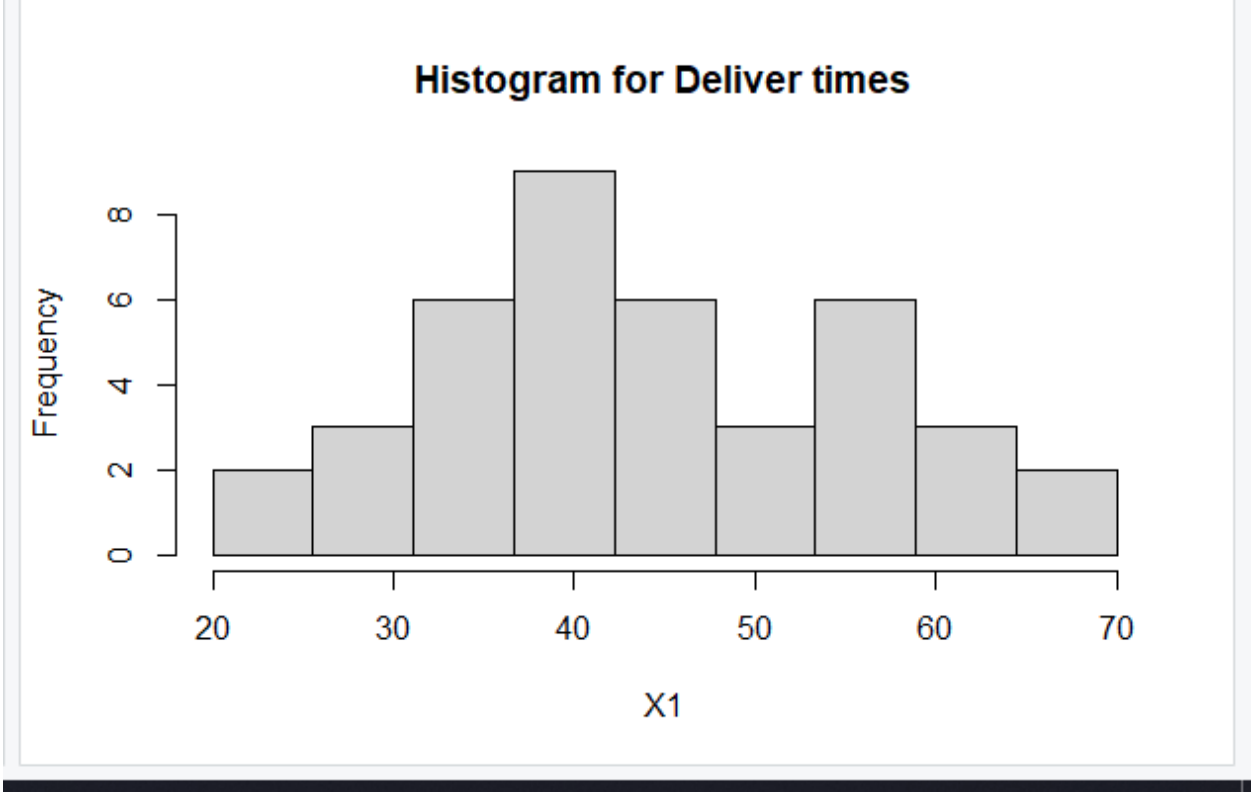
01).

```
> #Q1
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE, sep = ",")
> fix(Delivery_Times)
> attach(Delivery_Times)
```

02).

```
> #Q2
> names(Delivery_Times)<-c("X1")
> attach(Delivery_Times)
```

```
> histrogram <- hist(
+   X1,
+   main = "Histogram for Deliver times",
+   breaks = seq(20, 70, length=10),
+   right = FALSE)
```



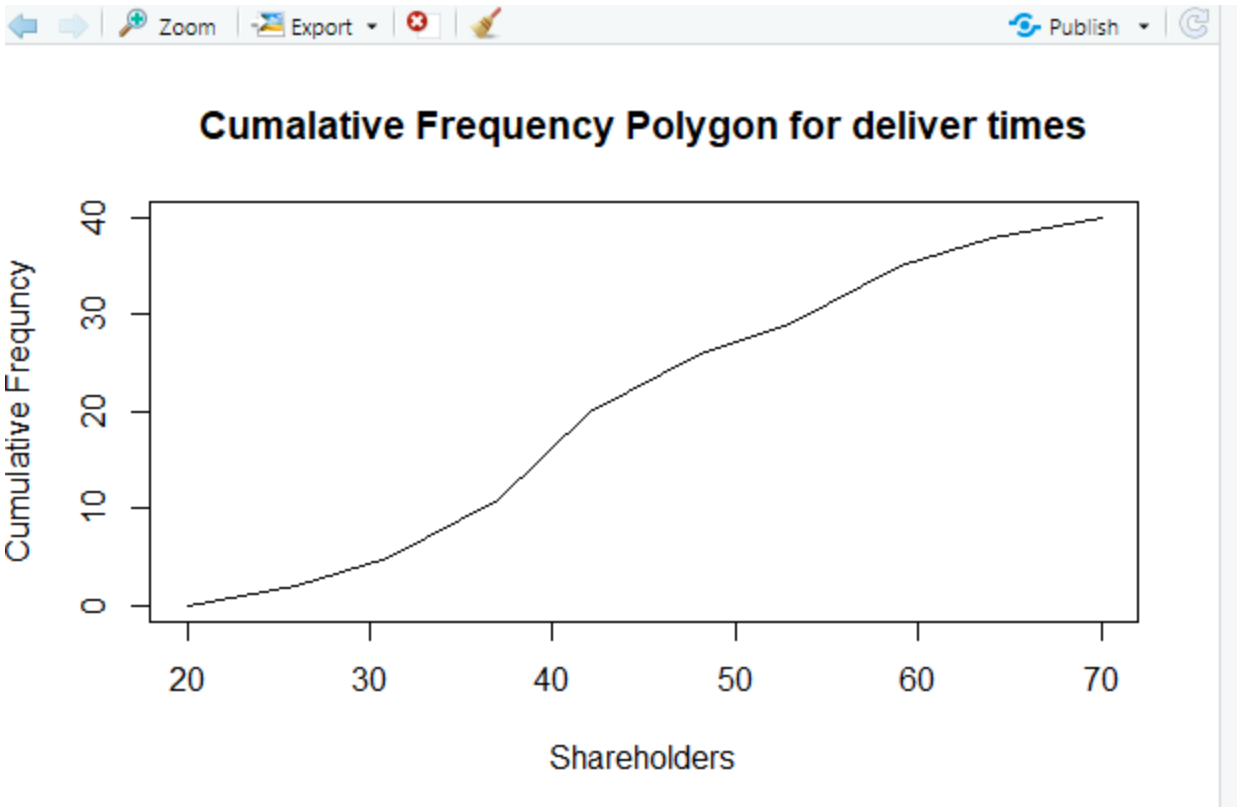
03).

```
> #Q3
> #The distribution is approximately symmetric and bell-shaped, resembling a normal dis
tribution
>
```

04).

```
> #Q4
> breaks <- round(histrogram$breaks)
> breaks
 [1] 20 26 31 37 42 48 53 59 64 70
> freq <- histrogram$counts
> freq
[1] 2 3 6 9 6 3 6 3 2
> mids <- histrogram$mids
> mids
[1] 22.77778 28.33333 33.88889 39.44444 45.00000 50.55556 56.11111 61.66667 67.22222
>
> cum.freq <- cumsum(freq)
>
> new <- c()
>
> for(i in 1:length(breaks)){
+   if(i==1){
+     new[i] = 0
+   }else{
+     new[i] = cum.freq[i-1]
+   }
+ }

> plot(breaks, new ,
+      type = "l",
+      main = "Cumalative Frequency Polygon for deliver times",
+      xlab = "Shareholders",
+      ylab = "Cumulative Frequncy",
+      ylim = c(0,max(cum.freq)))
>
> cbind(Upper = breaks, CumFreq = new)
      Upper CumFreq
 [1,]    20       0
 [2,]    26       2
 [3,]    31       5
 [4,]    37      11
 [5,]    42      20
 [6,]    48      26
 [7,]    53      29
 [8,]    59      35
 [9,]    64      38
[10,]    70      40
>
```


Zoom
Export
Publish
Cumalative Frequency Polygon for deliver times
Cumulative Frequncy
0
10
20
30
40
20
30
40
50
60
70
Shareholders