

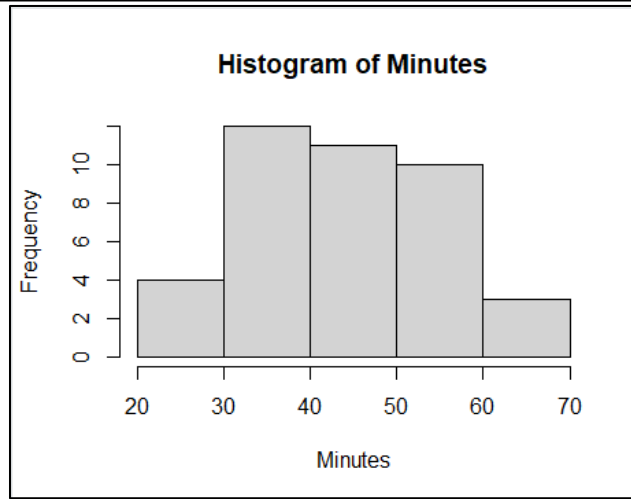
## Lab sheet 05 PS - IT2120

### Question 1:

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

### Question 2:

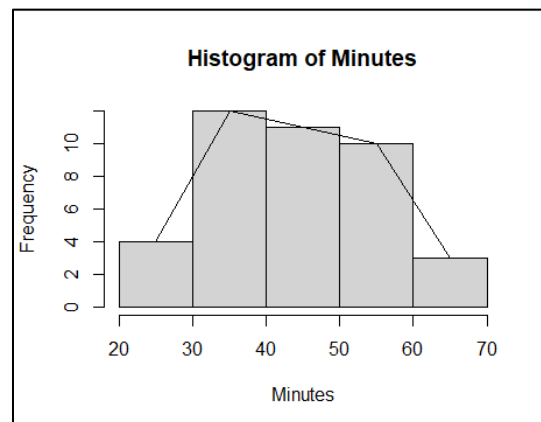
```
> #Q2  
> histogram <- hist(Minutes, breaks = seq(20, 70, length = 6), right = FALSE)
```



### Question 3:

```
> #Q2  
> histogram <- hist(Minutes, breaks = seq(20, 70, length = 6), right = FALSE)  
> lines(histogram$mids, histogram$counts)
```

- According to the histogram, most data accumulated toward left, therefore the distribution is a positive-skew or right-skew.



#### Question 4:

```
> #Q4
> cum.freq <- cumsum(histogram$counts)
> breaks <- round(histogram$breaks)
> 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 = 'Frequency polygon', xlab = 'Minutes', ylab = "Frequency", y
lim = c(0, max(new)))
```

