

# 1st homework for STA426

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*September 19, 2016*

## Sampling

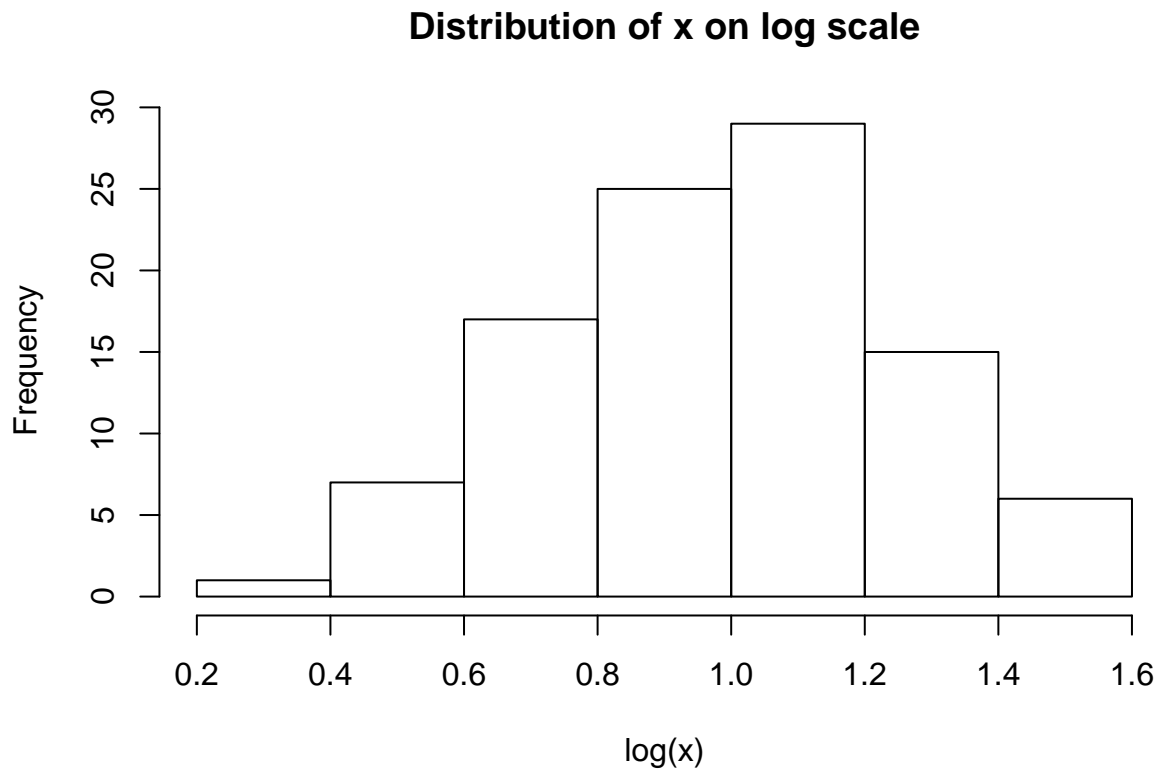
Firstly, we sample 100 values from a log-normal distribution. The mean is defined as 1 and the standard deviation 0.25. Then we name the distribution as  $x$ .

```
x <- rlnorm(100, meanlog=1, sdlog=0.25)
```

## Data presentation

Secondly, we plot the histogram of  $x$  on the log scale to have a look at the distribution.

```
hist(log(x), main = "Distribution of x on log scale")
```



## Summary

Thirdly, The mean of  $x$  is 0.99 and the variance of  $x$  is 0.07.