Assignment 1 Template

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Problem 3: **The first five numbers in your Gamma data set are:**

2.22	2.36	2.45	2.76	2.77

Sample mean = 14.989

Sample standard deviation = 6.925

The five number summary is:

2.22	8.065	12.745	20.9	49.08

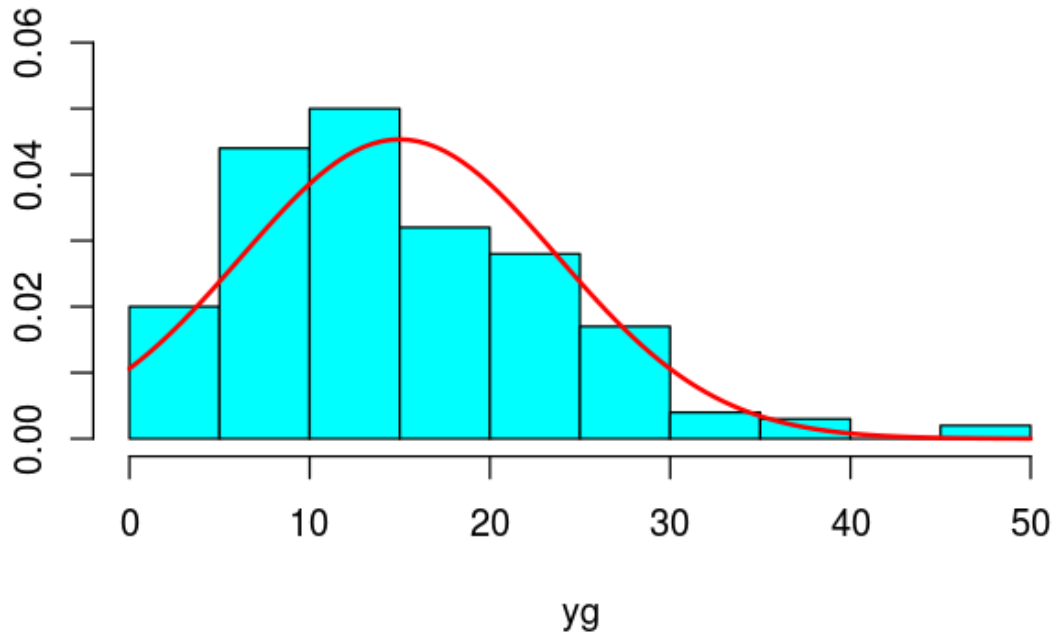**Sample median = 12.745**

Range = 2.22, 49.08

IQR = 12.8025
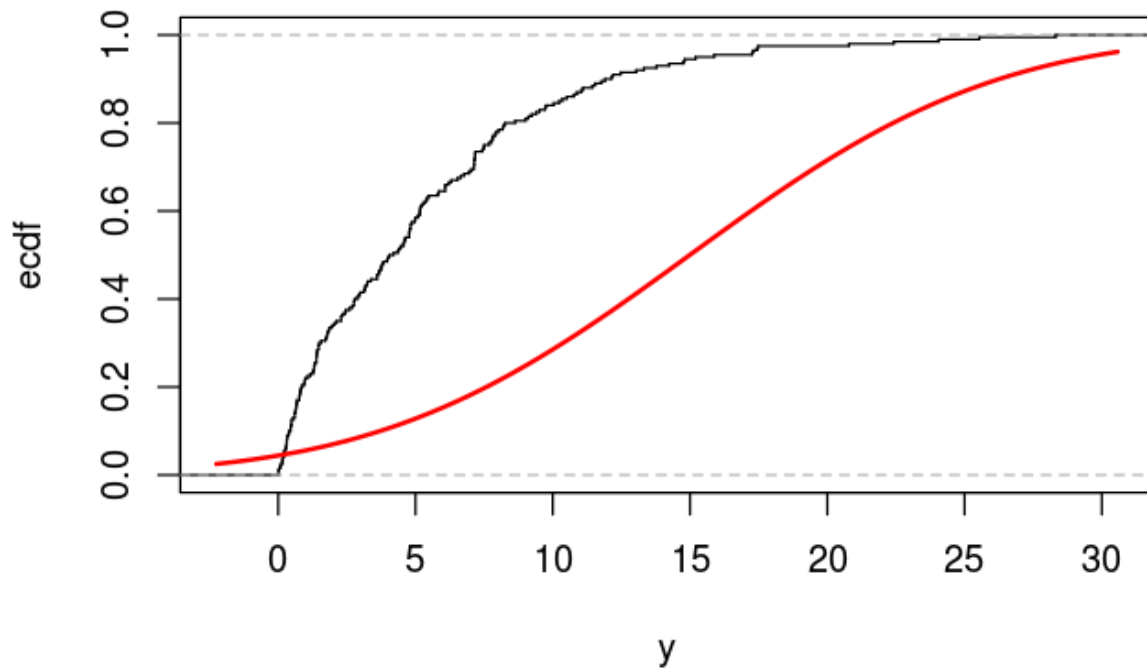
Sample skewness = 0.902

Sample kurtosis = 3.910

Insert the plots of the relative frequency histogram for the Gamma data with superimposed Gaussian probability density function and empirical cumulative distribution function with superimposed Gaussian cumulative distribution function on this page.

Relative Frequency Histogram of Data

Empirical and Gaussian C.D.F.'s

For Gaussian data, we expect the mean and median to be the same. Since the mean and median for this dataset (14.98 & 12.745), differ by less tham 15%, we can conlude that a gaussian model is a good fit for this data.