Summary

> Total number of samples that we draw from different strata should be $\sum n_h = n$

in such a way that

- > The selection of the sample sizes(n_h) from each stratum can be done using the following 2 methods:
 - Proportional allocation
 - o Optimum allocation(Neyman's allocation)
- > If the sample size in the hth stratum i.e., $n_h \odot N_h$ then the sample is said to have been selected under Proportional allocation.
- Under Proportional Allocation the sample sizes of each stratum can

$$n_h = \frac{N_h}{N} * n$$

be determined using the formula

- > If the sample size in the hth stratum is directly proportional to the product of the population size in the hth stratum and the population $n_h \oslash N_h S_h$ root mean square in the hth stratum i.e., then the sample is said to have been selected under Optimum allocation or Neyman's allocation.
- > Under Optimum or Neyman's Allocation the sample sizes of each

$$n_h = \frac{n}{\sum N_h S_h} \cdot N_h S_h$$

stratum can be determined using the formula: