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STRATIFIED RANDOM SAMPLING

It is a method of sampling from a population which can be partitioned into subpopulations. It could be advantageous to sample each subpopulation independently. Stratification is the process of dividing members of the population into homogeneous subgroups before sampling. It should define a partition of the population. That is, it should be collectively exhaustive and mutually ~~exclusive~~ exclusive. The objective is to improve the precision of the sample by reducing sampling error. It can produce a weighted mean that has less variability than the arithmetic mean of simple random sample.