### An Example

#### If you want to select 20 samples/subjects out of 100 students, ...



## Probabilistic Sampling – cont'd

#### 3. Stratified Sampling Method:

Stratified random sampling is the process of selecting a sample in such a way that identified subgroups in the population are represented in the sample in the same proportion that they exist in the population. It can also be used to select equal-size samples from each of a number of subgroups if subgroup comparisons are desired.

Researcher divides population into natural subgroups that are more homogeneous than the population as a whole. Then items are selected for the sample at random or by a systematic method from each subgroup.

# Steps in Stratified Sampling

- 1. Define the population.
- 2. Determine the desired sample size.
- 3. Identify the variable and subgroups (strata) for which you want to guarantee appropriate representation (either proportional or equal).
- 4. Classify all members of the population as members of one of the identified subgroups.
- 5. Randomly select (using a table of random numbers) an appropriate number of individuals from each of the subgroups. ("Appropriate" means either a proportional number of individuals or an equal number of individuals.)