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There are two other techniques: <b>3.</b> <u>Stratified Sampling</u> : we use it when the population is divided into subgroups called <u>Strata</u> (by personalities, sex, interests, grade level, age groups) We want all proportions of the population to be represented in the sample. $\widetilde{bys} \underbrace{\widetilde{bys}} \underbrace{\widetilde{brs}} \underbrace{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{\widetilde{brs}} \underbrace{brs}} \underbrace{\widetilde{brs}} \underbrace{brs} \underbrace{brs}} \underbrace{brs} \underbrace{brs} \underbrace{brs} \underbrace{brs} \underbrace{brs}} \underbrace{brs} br$	Ex 1: A small school with 400 students has 160 grade 9's, 140 grade 10's, and 100 grade 11's . A sample of 60 students are to be chosen for a survey. How many of each grade should be included?

## Ex 2: The following table shows the distribution of the 1200 students in a school.



A sample of 180 students is required, it must be representative of the population. How many girls from the second cycle should be in the sample? Another sampling technique:

**<u>4. Cluster sampling:</u>** When the population is made up of several similar clusters where there is a lot of variation inside each cluster. (such as grade 9 homerooms)

We then randomly choose some clusters. Each individual in the cluster is surveyed.

