

## Answer on Question #55357 – Math – Statistics and Probability

### Question

There is a sample of 200 contained of

50 freshman

50 sophomores

50 juniors

50 seniors

a) do you think the group was using SRS? Why

b) What sampling design do you think they used?

### Solution

a) No. Simple random sampling uses a numbered list, and randomly generated numbers are used to choose subjects from that list. While there is a minute possibility that you could get equal numbers from each classification, it is extremely improbable. Most likely an equal number of students were chosen from each classification, so that opinions from all classifications were equally represented. If they had chosen fewer students from each class, there would be the possibility that not enough student opinions were represented. More student opinions per class would be great, but obviously require more time investment to collect & compile data. The students should have intended for each student on campus to have equal chance of selection for the survey & that each undergraduate class was adequately represented.

b) They are likely to have used the probability sampling technique known as stratified sampling.