

Homework 2.3: [530]

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Exercise 3.14 (a) It is systematic sampleing. A random sample has been selected sequentially based on every n th appearance.

Exercise 3.14 (b) It is random sampling as number is chosen by a randomn number.

Exercise 3.14 (c) Stratiufied sample by gender.

Exercise 3.18 (a) Stratified with every list classified by job categories. This is because we see strata heterogeneity between each classification.

Exercise 3.18 (b) Since it is decided to sample 10 of the patients a suitable sampling method would be systematic sampling. If we select every fifth patient we will get ten percent with randomness.

Exercise 3.18 (c) Since a complete alphabetical list is available the most appropriate method would be random sampling since we would get a random response.

Exercise 3.18 (d) Cluster sampling every college will form a cluster and the students will be the elements. This works since the sample is already organized by college.