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QUESTION

(a) A botanist at a nursery wants to inspect the health of the plants at the nursery. Which of the following best describes a **cluster sample** of plants?

- ☐ The botanist takes a list of the plants and selects every 5th plant until 50 plants are selected.
- ☒ The botanist forms groups of 10 plants based on the heights of the plants. Then, he randomly chooses 5 groups and selects all of the plants in these groups.
- ☐ All of the plants that are in one particular room at the nursery are easily accessible. So, the botanist selects the 50 plants in this particular room.

(b) A manager at a bus company wants to survey employees about the new uniforms. Which of the following best describes a **stratified sample** of employees?

- ☒ The manager forms 4 groups of employees based on the departments the employees are in. Then, she selects 20 employees at random from each group.
- ☐ The manager forms groups of 20 employees based on the departments the employees are in. Then, she selects all of the employees in 4 randomly chosen groups.
- ☐ The manager asks for volunteers and selects every volunteer until 80 employees are selected. She selects the volunteers because these employees are easily accessible.

(c) A consultant wants to ask workers at a factory about the workers' job satisfaction. Which of the following best describes a **systematic sample** of workers?

- ☐ The consultant assigns each worker a different number. Using a random number table, he draws 60 of those numbers at random. Then, the consultant selects the workers assigned to the drawn numbers. Every set of 60 workers is equally likely to be drawn using the random number table.
- ☒ The consultant takes a list of the workers and selects every 6th worker until 60 workers are selected.
- ☐ The consultant forms 5 groups of workers based on the workers' shifts. Then, he selects 12 workers at random from each group.

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