

Food Service Survey Task

The school food service wants to increase the number of students who eat hot lunch in the cafeteria. The student council has been asked to conduct a survey of the student body to determine the students' preferences for hot lunch. They have determined three different ways to do the survey. The three methods are listed below.

Method #1: Write all of the students' names on cards and put them in a hat. Draw cards from the hat to determine who will complete the survey.

Method #2: Survey the first 20 students who enter the lunchroom.

Method #3: Survey every 3rd student who gets off a bus.

You must:

- Decide if each survey option would produce a random sample.
- Explain your decision for each method
- State which survey option you think the student council should use.
- Convince the student council that they should use the survey method you suggest by writing a letter explaining your position.

| | Does this method produce a random sample? (a) | Explanation for why you think this will or will not produce a random sample. Use <i>facts</i> to back your opinions. (b) |
|-----------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Method #1 | | |
| Method #2 | | |
| Method #3 | | |

(c) Which option do you think the student council should use?

(d) Attach the letter you write to the student council. Please use the rubric provided to guide your work.