Statistical Method

Homework 4

At most two members work together to submit answers on Moodle.
Due data: 23:59, October 23, 2023

For each question, please select suitable testing and give the reason (could be multiple suitable testing). Analyze the data and give the conclusion regarding to the interest of each question.

1. We collect the scores of the MATH exam from two classes, Class A and Class B. There are 25 students in Class A and 21 students in Class B. The teacher wants to know if the students performed equally on the exam. The dataset is shown in the sheet Question 1.

2. Twelve farmers are selected randomly in an experiment with a plant nursery. Each farmer is asked to select four fair and identical areas in the yard and to plant four different types of grasses. One type in each area of the yard. After the grasses grow, the farmer will give the score of each grass. The experiment is conducted to know if the four types of grasses are popular equally. The dataset is shown in the sheet Question 2.

3. 50 people were surveyed regarding their opinion about candidates for Mayor. 15 people were in Candidate A and 35 people were in Candidate B. After they listened to a debate by the two candidates and the survey done by the 50 people was repeated. Then, 17 voted in Candidate A and 33 in Candidate B. Did the debate affect people's opinions? The dataset is shown in the sheet Question 3.