

MATH 120: Quiz 5 - 3/07/2019

A university wants to find out whether a new education program will improve the spending habits of college students. They select a sample of 30 students and randomly assign them to three different classes on spending habits. After completing the course, all students will take a common test on spending habits, and their scores will be recorded. Identify each of the following as precisely as possible

Experimental units:

Factor(s) - how many and name of each:

Treatments - how many and what are they:

Response variable(s):

Control of variability - name at least one form of it contained in this experiment:

Solution

Experimental units = The sample of 30 students selected for the experiment.

Factors = There is one factor. It is the type of class on spending habits

Treatments = There are 3: the three different classes on spending habits.

Response variable: The score on a common test that each student will take.

Control of variability: (i) treatments are randomly assigned; (ii) they will administer a common test for all students to take.

Grading: Total points possible = 6.

1 pt - For any reasonable attempt.

1pt each for correct responses to the 5 items in the question.