

The problem

How to decrease student cheating?

When students cheat on tests it misrepresents how much of the course they have learned. This makes it harder for me as a teacher to gauge the topics in which I should do extra review.

Cheating is also against school policy and should be punished if caught.

The potential solution

Create three different versions of the same tests. Having different versions of the test will make it harder for students to cheat.

The method of testing the solution

Stack all of test A together and randomize tests B and C after. What we are interested in is cheating that will be reflected in test scores. After grading the tests find the average of each test group. If group B and C averages are lower than 1 standard deviation of test A average then having different tests is effective and decreases cheating. If not further examine by randomizing all three tests. If scores in all are below 1 standard deviation then it is effective. If not students may not be cheating