

Happy Final Discussion!!!

1. A school district is considering instituting a free breakfast program. Before implementing the program, they want to test whether there is an association between eating breakfast and performing well on exams. They surveyed sixth grade students taking their end-of-year exams and found 48 skipped breakfast, of whom 32 passed their exams. They also found 72 ate breakfast, 68 of whom passed their exams. Construct a contingency table and test for an association between eating breakfast and performing well.
2. A curious kindergarten teacher paints "Gullible" on her classroom ceiling, then tells her students that "Gullible" is written on the ceiling. Of the 25 students with backpacks, 10 check. Of the 14 students with rolling bags, 8 check. Construct a contingency table and test for an association between eating using a rolling bag and checking for "Gullible".
3. (13.4, 6.) A study was conducted to determine the relationship between childbearing and breast cancer. Of the 4323 respondents who had cancer, 3320 had given birth to at least one child. Of 12,699 respondents who did not have cancer, 10,245 of these had given birth to at least one child. Construct a contingency table and test for an association between childbearing and cancer.
4. Was χ^2 a reasonable test for each of the above problems? Why?
5. True/False: You need to fill out the course evaluation.