BIOMETRY, CLASS EXERCISE 8

(1) (Test for independence). For devotees of Star Trek a question of fundamental interest is if fatality rates and uniform color are independent. The table below summarizes the fatality and survivor numbers in one the Star Trek episodes.

	Blue	Gold	Red
Dead	7	9	24
Alive	129	46	215

Use a χ^2 test for independence to test the hypothesis that fatality rates and uniform color are independent at the 5% level of significance. Make sure to report a p-value and draw a conclusion in the context of the problem.