PROBLEM 3: EV = Row Total x GITotal · ATTENDED & PASSED: EV= 31 x33 = 18.94 · ATTENDED x FAILED : EV= 31x21 = 12.06 * SKIPPED X PASSED : EV = 23×33 = 4.06 ·SKIPPED & FALLED: EV= 23x2/ = 8.94 $\chi^2 = \frac{2}{5} \frac{(0-E)^2}{E}$ $\chi^2 = \frac{(25 - 18.94)^2}{18.94} + \frac{(6 - 12.06)^2}{12.06} + \frac{(8 - 14.06)^2}{14.06} + \frac{(15 - 8.94)^2}{8.94}$ $= \frac{36.67}{18.94} + \frac{36.67}{12.06} + \frac{36.67}{14.06} + \frac{36.67}{8.94}$ = 1.94+3.04+2.61+410 = 11.96 $df = (r-1) \times (c-1)$ df = (2-1) x(2-1) = 1 Critical Value = 3.841 11.69 > 3.841 Passing has a significant dependancy on attendance.