

Quiz 7 for Statistics 301

Elementary Statistical Methods - Fall 1999

Material Covered: Chapter 11 of Workbook; Sections 11.1–11.6 of text

For: 3rd December

Name (please print): _____

last

first

According to an X -file, little green men (LGM) come in the four shapes of square, rectangular, oval and circular, in the ratio 1:2:1:4. Suppose, in fact, of 100 LGM, chosen at random, it was found that there was, respectively, (14, 22, 10, 54) square, rectangular, oval and circular LGM.

1. [2] Complete the following table.

	square	rectangular	oval	circular	totals
observed, O_i	14	22	10	54	100
expected, E_i	(a)	(b)	(c)	(d)	100

	(a)	(b)	(c)	(d)

2. [2] The upper critical value,

$$\chi^2_{\alpha} = \chi^2_{0.05} = _____.$$

3. [2] The p-value

is _____.

1. [2] Complete

(a)	(b)	(c)	(d)
12.5	25	12.5	50

2. [2] **7.81**

3. [2] **0.71**