

Chapter 14: Analysis of Categorical Data

- 14.1** a. $H_0: p_1 = .41, p_2 = .10, p_3 = .04, p_4 = .45$ vs. H_a : not H_0 . The observed and expected counts are:

	A	B	AB	O
observed	89	18	12	81
expected	$200(.41) = 82$	$200(.10) = 20$	$200(.04) = 8$	$200(.45) = 90$

The chi-square statistic is $\chi^2 = \frac{(89-82)^2}{82} + \frac{(18-20)^2}{20} + \frac{(12-8)^2}{8} + \frac{(81-90)^2}{90} = 3.696$ with $4 - 1 = 3$ degrees of freedom. Since $\chi^2_{.05} = 7.81473$, we fail to reject H_0 ; there is not enough evidence to conclude the proportions differ.

b. Using the Applet, $p\text{-value} = P(\chi^2 > 3.696) = .29622$.

- 14.2** a. $H_0: p_1 = .60, p_2 = .05, p_3 = .35$ vs. H_a : not H_0 . The observed and expected counts are:

	admitted unconditionally	admitted conditionally	refused
observed	329	43	128
expected	$500(.60) = 300$	$500(.05) = 25$	$500(.35) = 175$

The chi-square test statistic is $\chi^2 = \frac{(329-300)^2}{300} + \frac{(43-25)^2}{25} + \frac{(128-175)^2}{175} = 28.386$ with $3 - 1 = 2$ degrees of freedom. Since $\chi^2_{.05} = 7.37776$, we can reject H_0 and conclude that the current admission rates differ from the previous records.

b. Using the Applet, $p\text{-value} = P(\chi^2 > 28.386) = .00010$.

- 14.3** The null hypothesis is $H_0: p_1 = p_2 = p_3 = p_4 = \frac{1}{4}$ vs. H_a : not H_0 . The observed and expected counts are:

lane	1	2	3	4
observed	294	276	238	192
expected	250	250	250	250

The chi-square statistic is $\chi^2 = \frac{(294-250)^2}{250} + \frac{(276-250)^2}{250} + \frac{(238-250)^2}{250} + \frac{(192-250)^2}{250} = 24.48$ with $4 - 1 = 3$ degrees of freedom. Since $\chi^2_{.05} = 7.81473$, we reject H_0 and conclude that the lanes are not preferred equally. From Table 6, $p\text{-value} < .005$.

Note that R can be used by:

```
> lanes <- c(294, 276, 238, 192)
> chisq.test(lanes, p = c(.25, .25, .25, .25))    # p is not necessary here

      Chi-squared test for given probabilities

data:  lanes
X-squared = 24.48, df = 3, p-value = 1.983e-05
```

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Charles D. Kincaid



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