

## AP Statistics – Chapter 14 Practice Test Solutions

### Multiple Choice

1. b 2. a 3. a 4. d 5. c 6. a 7. e 8. e 9. c 10. c

### Free Response

#### 1. Goodness of Fit Test – Equal Proportions

a) Since there are 5 groups, the probability is  $1/5 = 0.2$

b) Since there are 500 numbers generated, expected counts are  $500(0.2) = 100$

c) The formula for  $\chi^2$  statistic is  $\chi^2 = \sum \frac{(\text{obs} - \text{exp})^2}{\text{exp}}$ . For this data, the calculation is

$$\frac{(113 - 100)^2}{100} + \frac{(95 - 100)^2}{100} + \frac{(108 - 100)^2}{100} + \frac{(99 - 100)^2}{100} + \frac{(85 - 100)^2}{100} = 4.84$$

There are 4 degrees of freedom here, so the p-value is .3041.

Conclusion: Since the p-value is high ( $p > .05$ ), we fail to reject the null hypothesis. So we can conclude that the random numbers are uniformly distributed among the 5 groups.

#### 2. Goodness of Fit Test – Unequal Proportions

a)  $H_0$ : Data matches the given ratios  $H_a$ : Data does not match the given ratios

b) All expected counts are greater than 5. We also require that data is randomly selected.

c) For the ratios 9:3:3:1, we have 16 total parts ( $9+3+3+1=16$ ). So we divide the total 1611 by 16 which equals 100.69. So using the ratios given, a 9:3:3:1 the expected counts would be  $9(100.69)$ ,  $3(100.69)$ ,  $3(100.69)$  and  $1(100.69) = 906.19$ , 302.06, 302.06 and 100.69.

d) There are 3 degrees of freedom here, so  $\chi^2 = 1.468$  and the p-value is .6900.

e) Since the p-value is high ( $p > .05$ ), we fail to reject the null hypothesis. So we can conclude that the numbers in our sample are consistent with genetic law (matches the expected ratios).

#### 3. Test of Association Between Categorical Variables – Two-Way Table

a) Only one expected count is less than 5. The count for (*Men, Economics*) = 4.59. Since this is only 1 out of 8 counts (12.5%) we are OK to use the chi-square test.

b) Expected counts are found by  $\frac{(\text{row tot})(\text{col tot})}{\text{table tot}} = \frac{(11)(225)}{386} = 6.412$ .

c) There are 3 degrees of freedom here, so  $\chi^2 = 10.827$  and the p-value is .0127

d) Since the p-value is less than .05, we reject the null hypothesis. So we can conclude that there is a relationship between gender and their choice of major. Stated another way, men and women do not choose majors in the same way.

# Ap Statistics Chapter 14 Test Answers

**SJ Ball**



**Ap Statistics Chapter 14 Test Answers:**

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