Lesson 19: Inference for Several Proportions, Goodness-of-Fit, and Independence

Homework

## Solutions

**Please note that the steps show rounded numbers, but that the final answers to the problems are calculated without rounding.**

|  |  |  |
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| Problem | Part | Solution |
| 1 | - | The requirements are met because all expected counts are greater than or equal to five |
| 2 | - | barchart |
| 3 | - |  |
| 4 | - |  |
| 5 | - |  |
| 6 | - | reject the null hypothesis |
| 7 | - | There is sufficient evidence to suggest that religiosity and frequency of anger at something beyond one’s control are not independent. |
| 8 | - | The requirements are met because all expected counts are greater than or equal to five |
| 9 | - | barchart |
| 10 | - |  |
| 11 | - |  |
| 12 | - |  |
| 13 | - | reject the null hypothesis |
| 14 | - | There is sufficient evidence to suggest that family structure and whether a girl goes to college are not independent |
| 15 | - | The requirements are met because all expected counts are greater than or equal to five |
| 16 | - | barchart |
| 17 | - |  |
| 18 | - |  |
| 19 | - |  |
| 20 | - | fail to reject the null hypothesis |
| 21 | - | There is insufficient evidence to conclude that a student’s gender and status in a PhD program are not independent. |