Lesson 17: Inference for One Proportion

Preparation

## 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 | - | x = number of successes n = number of trials. |
| 2 | - |  |
| 3 | - |  |
| 4 | - |  |
| 5 | - |  |
| 6 | - |  |
| 7 | A |  |
| 7 | B | -> ->   -> ->  The requirements are met. |
| 7 | C |  |
| 7 | D | -> -> (0.6511, 0.7087) We are 95% confident that the true population mean, *p*, is between 0.6511 and 0.7087. |
| 7 | E | -> |
| 8 | A |  |
| 8 | B |  |
| 8 | C | Applet p = 0 |
| 8 | D | We reject the null hypothesis |
| 8 | E | We have sufficient evidence to conclude that the true proportion of students that have been in a car accident within the last 5 years is greater than 0.6. |