

Homework Solutions

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Exercise 17

- (a) The hypotheses (theories) are
 - H_0 : The percentage of dissatisfied customers is 10%.
 - H_1 : The percentage of dissatisfied customers is less than 10%.
- (b) Set the seed to 32. Then enter `randInt(1,40000)` and press ENTER 4 times to get the first four values. You should get 34318, 15553, 8461, and 614.
- (c) A Type II error could have been committed (not rejecting H_0 when it is false).
- (d) Because the data were found to be not statistically significant, the p -value must be greater than 0.10. One possible value is 0.20.
- (e) No. We know that the p -value is greater than 0.10. Therefore it is also greater than 0.05.
- (f) The number 9.5% is a *statistic* because it is derived from the sample.