

Homework Solutions

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Exercise 50

- (a) The hypotheses are
- H_0 : The percentage of Republicans who favor the death penalty is the same as the percentage of Democrats who favor the death penalty.
- H_1 : The percentage of Republicans who favor the death penalty is greater than the percentage of Democrats who favor the death penalty.
- (b) The rejection region will be one-sided. We will reject H_0 only if the percentage of Republicans is significantly *larger* than the percentage of Democrats.
- (c) We do not have the means (yet) to calculate the p -value, but if the samples sizes were large enough, then a two-percentage-point difference would be *statistically* significant.
- (d) I doubt that it is *practically* significant. From a *practical* point of view, the two percentages are nearly the same.