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Statistics for laboratory scientists

Solutions for the homework problems for lecture 19

1. The R code is simply `binom.test(16,45)`.

We obtain $P = \mathbf{0.072}$, and conclude that the proportion, p , could reasonably be $1/2$.

2. Again, we use `binom.test(16,45)`.

The 95% confidence interval for p is $\mathbf{(0.22, 0.51)}$.

3. In R, type `binom.test(15,15)`.

The 95% confidence interval for p is $\mathbf{(0.78, 1.00)}$.

Note that the lower confidence limit could be obtained, in R, by `0.025^(1/15)`.

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