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Statistics for laboratory scientists

Homework problems for lecture 19

1. Use R to test the hypothesis $H_0: p = 1/2$ vs. $H_a: p \neq 1/2$ for $X \sim \text{binomial}(n=45, p)$ when we observe $X = 16$.
2. Use R to calculate a 95% confidence interval for p for the data in problem 1.
3. Calculate a 95% confidence interval for p when $X \sim \text{binomial}(n=15, p)$ and we observe $X = 15$.

[[3rd term syllabus](#) | [4rd term syllabus](#) | [R for Windows](#)]

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