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 = 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 **(0.22, 0.51)**.

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

   The 95% confidence interval for p is **(0.78, 1.00)**.

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

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Last modified: Thu Mar 2 13:03:44 EST 2006