

Homework Solutions

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Exercise 27

- (a) Use the t -table, with 90% confidence and 25 degrees of freedom. We get $t = 2.060$. Then the confidence interval is

$$\begin{aligned}\bar{x} \pm z \left(\frac{s}{\sqrt{n}} \right) &= 10.44 \pm 2.060 \left(\frac{2.82}{\sqrt{26}} \right) \\ &= 10.44 \pm 1.139.\end{aligned}$$

- (b) If we followed this procedure many times, with many different samples, in the long run 95% of them would contain the true value of μ .
- (c) Here is the boxplot.

