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Intro Stats Quiz C – Chapter 23 – Key

Textbook authors must be careful that the reading level of their book is appropriate for the target audience. Some methods of assessing reading level require estimating the average word length. We've randomly chosen 20 words from a randomly selected page in *Stats: Modeling the World* and counted the number of letters in each word:

5, 5, 2, 11, 1, 5, 3, 8, 5, 4, 7, 2, 9, 4, 8, 10, 4, 5, 6, 6

- Suppose that our editor was hoping that the book would have a mean word length of 6.5 letters. Does this sample indicate that the authors failed to meet this goal? Test an appropriate hypothesis and state your conclusion.

Hypotheses: $H_0: \mu = 6.5$ $H_a: \mu \neq 6.5$ where μ represents the population mean of word lengths

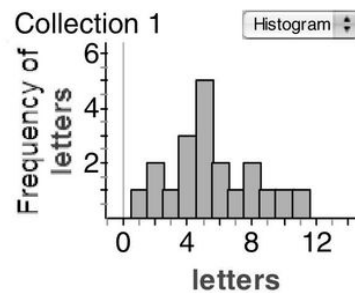
Plan: We have a random sample of less than 10% of the words in the book. A histogram of the observed word lengths looks roughly unimodal and symmetric, so the population of all word lengths may be approximately normal. It is appropriate to use a one sample *t*-test.

Mechanics: $n = 20$ $\bar{x} = 5.5$ $s = 2.685$
 $df = 19$

$$t = \frac{5.5 - 6.5}{\frac{2.685}{\sqrt{20}}} = -1.67$$

$$P = 2 \cdot P(t_{19} < -1.67) = 0.11$$

Conclusion: Because the P-value is so high we do not reject H_0 . This sample does not provide evidence that the average word length differs from the goal of 6.5 letters.



- For a more definitive evaluation of reading level the editor wants to estimate the text's mean word length to within 0.5 letters with 98% confidence. How many randomly selected words does she need to use?

$$\text{First estimate: } n = \left(\frac{z^* s}{ME} \right)^2 = \left(\frac{2.326 \times 2.685}{0.5} \right)^2 = (12.49062)^2 = 156.02 \Rightarrow n = 157$$

Based on first estimate,

$$n = \left(\frac{t_{157}^* s}{ME} \right)^2 = \left(\frac{2.353 \times 2.685}{0.5} \right)^2 = (12.63561)^2 = 159.66 \Rightarrow n = 160, \text{ using } df = 140 \text{ from Table T.}$$

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