! This class has been made inactive. No posts will be allowed until an instructor reactivates the class.

question @16 13 views

Actions

Question 7.15 c and 7.42 b

Does anyone know how to go about either of these question? I don't quite understand what I am supposed to do with these question because we haven't done this in class yet but HW is due tomorrow so any help is highly appreciated.

hw3

Edit undo good question | 1 Updated 5 years ago by Chloe Henderson

the students' answer, *where students collectively construct a single answer*

Actions

For 7.15(c), the equation for the sample size is $n = (\frac{z_{score}}{\epsilon})^2(\sigma_1^2 + \sigma_2^2)$ (see note at bottom). The variable z_{score} is ~ 1.96 (derived from the $.95$ probability with a table of z-scores or a calculator) and ϵ is the error (in this case 1).

For 7.42(b), the formula for a confidence interval is $\bar{x} \pm z_{score}\frac{\sigma}{\sqrt{n}}$. The variable z_{score} is again ~ 1.96 because it is asking for a $.95$ probability.

After these steps, both problems are almost all plugging in variables and solving.

(note: this is derived via algebra from the fact that $\epsilon = z_{score}\sqrt{\frac{\sigma_1^2+\sigma_2^2}{n}}$)

Edit thanks! | 0 Updated 5 years ago by Charles Hwang

followup discussions *for lingering questions and comments*

Start a new followup discussion

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