Homework

Please answer the following questions. Be sure that you have downloaded the associated Excel file before beginning the homework. This lesson uses the **JulyFiniteCorrectionHW.xlsx** file. Apply the finite correction factor to obtain your answers.

*Remember that homework counts for 20% of your final grade. You are allowed **unlimited** attempts per question for homework problems. The main goal of homework is for you to practice and learn how to apply what you've learned in the content without worrying about getting the problem right the first time. Some homework problems may also provide hints or advice. Have fun!*

M4L6HW1

1/1 point (graded)

In a local election poll in a town with 5000 registered voters, how many voters need to be sampled so we can be 95% confident that we can estimate the true percentage of voters preferring the Democratic candidate within 2%? Apply the finite correction factor to obtain your answer.

- 1612
- 1623 ✔

- 1632
- 1642

Submit

✔ Correct (1/1 point)

M4L6HW2

1/1 point (graded)

In a batch of 200 soda cans, how many many soda cans need to be sampled in order to be 95% confident that your estimate of the average number of ounces in a soda can is accurate within 0.03 ounces? Assume standard deviation of ounces in a can is 0.15 ounce. Apply the finite correction factor to obtain your answer.

- 59
- 61
- 63
- 66 ✔

Submit

✔ Correct (1/1 point)

M4L6HW3

1/1 point (graded)

You are told the standard deviation of the invoice size in a population of 200 invoice values is $1,000. A sample of 50 invoices yields an average invoice size of $5,000. You are 95% confident that the average size of an invoice is between which two values? Calculate the lower and upper limit, and apply the finite correction factor to obtain your answer.

- $4,700 and $5,300
- $4,856 and $5,144
- $4,759 and $5,241 ✔
- $4,923 and $5,077

Submit

✔ Correct (1/1 point)