Week 2 Lab

Quiz, 6 questions

6/6 points (100%)

Congratulations! You passed!

Next Item

1 / 1 point

1.
My distribution should be similar to others' distributions who also collect random samples from this population, but it is likely not exactly the same since it's a random sample.

- [x] True

Correct

- [ ] False

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1 / 1 point

2.
For the confidence interval to be valid, the sample mean must be normally distributed and have standard error $\frac{s}{\sqrt{n}}$. Which of the following is **not** a condition needed for this to be true?

- [ ] The sample is random.
- [ ] The sample size, 60, is less than 10% of all houses.
- [x] The sample distribution must be nearly normal.

Correct

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1 / 1 point

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3.
What does "95% confidence" mean?

- [ ] 95% of the time the true average area of houses in Ames, Iowa, will be in this interval.
- [x] 95% of random samples of size 60 will yield confidence intervals that contain the true average area of houses in Ames, Iowa.

Correct

- [ ] 95% of the houses in Ames have an area in this interval.
- [ ] 95% confident that the sample mean is in this interval.

1 / 1 point

4.
What proportion of 95% confidence intervals would you expect to capture the true population mean?

- [ ] 1%
- [ ] 5%
- [x] 95%

Correct

- [ ] 99%

1 / 1 point

5.
What is the appropriate critical value for a 99% confidence level?

- [ ] 0.01
- [ ] 0.99
- [ ] 1.96

2.33

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2.58

Correct

1 / 1 point

6.

We would expect 99% of the intervals to contain the true population mean.

True

Correct

False