

HW F16: Final Exam Review

Score: 0/46 0/46 answered

● Question 25

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The mean daily production of a herd of cows is assumed to be normally distributed with a mean of 40 liters, and standard deviation of 2.2 liters.

A) What is the probability that daily production is **between** 37.2 and 44.3 liters? Do not round until you get your your final answer.

Answer= (Round your answer to 4 decimal places.)

Warning: Do not use the Z Normal Tables...they may not be accurate enough since WAMAP may look for more accuracy than comes from the table.

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● Question 26 ▼

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In a recent poll, 410 people were asked if they liked dogs, and 35% said they did. Find the margin of error of this poll, at the 99% confidence level.

Give your answer to three decimals

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● Question 27 ▼

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Out of 200 people sampled, 56 had kids. Based on this, construct a 95% confidence interval for the true population proportion of people with kids.

Give your answers as decimals, to three places

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● Question 28 ▼

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A political candidate has asked you to conduct a poll to determine what percentage of people support her.

If the candidate only wants a 3% margin of error at a 99% confidence level, what size of sample is needed?

Give your answer in whole people.

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● Question 29

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Express the confidence interval $(16.7\%, 30.1\%)$ in the form of $\hat{p} \pm ME$.

% $\pm$ %

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● Question 30

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A student was asked to find a 95% confidence interval for the proportion of students who take notes using data from a random sample of size $n = 77$. Which of the following is a correct interpretation of the interval $0.12 < p < 0.21$?

Check all that are correct.

- ☐ There is a 95% chance that the proportion of notetakers in a sample of 77 students will be between 0.12 and 0.21.
- ☐ With 95% confidence, a randomly selected student takes notes in a proportion of their classes that is between 0.12 and 0.21.
- ☐ With 95% confidence, the proportion of all students who take notes is between 0.12 and 0.21.
- ☐ There is a 95% chance that the proportion of the population is between 0.12 and 0.21.
- ☐ The proportion of all students who take notes is between 0.12 and 0.21, 95% of the time.

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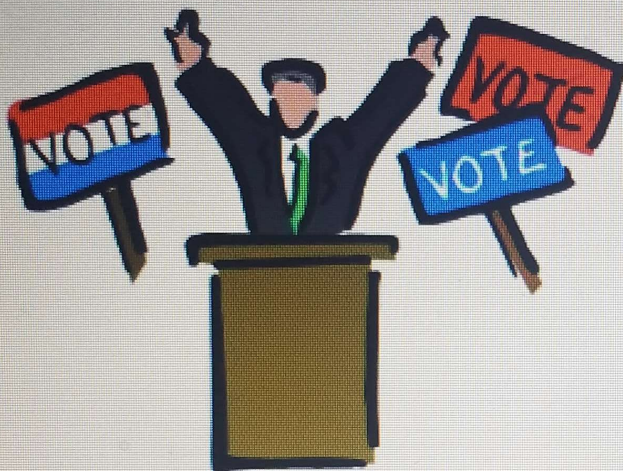
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Question 31

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Out of 400 people sampled, 160 preferred Candidate A. Based on this, estimate what proportion of the voting population (p) prefers Candidate A.

Use a 95% confidence level, and give your answers as decimals, to three places.

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● Question 32 ▼



If $n=14$, $\bar{x}(x\text{-bar})=44$, and $s=2$, find the margin of error at a 95% confidence level

Give your answer to two decimal places.

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● Question 33 ▼

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In a survey, 32 people were asked how much they spent on their child's last birthday gift. The results were roughly bell-shaped with a mean of \$40 and standard deviation of \$12. Construct a confidence interval at a 80% confidence level.

Give your answers to one decimal place.

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● Question 34 ▼

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The effectiveness of a blood-pressure drug is being investigated. An experimenter finds that, on average, the reduction in systolic blood pressure is 45 for a sample of size 13 and standard deviation 19.

Estimate how much the drug will lower a typical patient's systolic blood pressure (using a 95% confidence level).

Give your answers to one decimal place and provide the point estimate with its margin of error.

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● Question 35 ▼

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In a survey, 14 people were asked how much they spent on their child's last birthday gift. The results were roughly bell-shaped with a mean of \$32 and standard deviation (s) of \$13. Construct a confidence interval at a 80% confidence level.

Give your answers to one decimal place.

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● Question 36

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Based on the data shown below, calculate the correlation coefficient (to three decimal places)

x	y
5	27.58
6	26.54
7	25.4
8	25.26
9	21.82
10	21.08
11	19.94
12	17.7
13	19.76
14	18.82
15	16.78
16	13.94
17	15.2

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