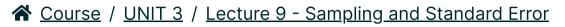
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Exercise 4

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Lecture Sequence due Dec 15, 2022 07:30 +08 Completed

Exercise 4

3/3 points (graded)

Ace, Bree, and Chad are each tasked with finding the standard error for three different problems. Each person only has a sample size of 100 data points for each of their problem.

Ace: the winning bonus number in the lottery

Bree: the average women's shoe size

Chad: the number of mold pacteria on pread over time	
Which person's sample standard deviation will be the closest to the actual popula Ace	ation standard deviation?
Bree	
Chad	
2. Which person's sample standard deviation will be the farthest to the actual popul	ation standard deviatior
Ace	
Bree	
Chad	
 Now suppose Chad used a sample size of 10,000 instead of 100 but the other two size of 100. Mark all that are correct. The difference between the sample standard deviation and actual population for the mold problem decreases. The difference between the sample standard deviation and actual population.	on standard deviation
for the mold problem is now less than the difference between the sample sactual population standard deviation for the shoe problem. difference between the sample standard deviation and actual population standard problem is now less than the difference between the sample standard	standard deviation and tandard deviation for th
population standard deviation for the lottery problem.	
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■ Calculator

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