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	Friday, 10 December 2021, 8:50 AM
	Finished
	Friday, 10 December 2021, 9:03 AM 13 mins 24 secs
	31.00/31.00
	10.00 out of 10.00 (100 %)
Question 1 Correct	
Mark 1.00 out of 1.00	
man noo out or noo	
	ormal distribution with unknown mean μ and unknown standard deviation σ . A sample X1, X2, , X16 of i.i.d. random bution X is taken. The sample average of these 16 values comes out to be X = 10.2 and the sample standard deviation is S
True of False: witho	ut knowing σ it is not possible to provide a 90% confidence interval for μ .
Select one:	
○ True	
False ✓	
The correct answer	is 'False'.
Question 2	
Correct	
Mark 10.00 out of 10.00	
Suppose X has a normal distribution with unknown mean μ and unknown standard deviation σ . A sample X1, X2, , X16 of i.i.d. random variables with distribution X is taken. The sample average of these 16 values comes out to be Xbar = 10.2 and the sample standard deviation is S = 3.0. The distribution of 4/3(Xbar - μ)/S is	
a. Normal(0,	
b. t distributi	on with 15 degrees of freedom
c. Normal (1	0.2, 3)
O d. t distributi	on with 10 degrees of freedom
Your answer is corr	ect.
The correct answer	is:
t distribution with	5 degrees of freedom

/22, 5:08 PM	Quiz 10: Attempt review
Question 3	
Correct	
Mark 10.00 out of 10.00	
	tion with unknown mean μ and unknown standard deviation σ . A sample X1, X2,, X16 of i.i.d. random ken. The sample average of these 16 values comes out to be Xbar = 10.2 and the sample standard deviation
To calculate a 95% confidence in	nterval for the actual mean μ the value of a, β in
$\beta = P(Xbar - \mu < a)$ is	
a. 0.05, 0.95	
○ b. 1, 1	
oc. 0,0	
od. 0.95, 1.60	✓
Your answer is correct.	
The correct answer is:	
0.95, 1.60	
Question 4	
Correct	
Mark 10.00 out of 10.00	
variables with distribution X is tal	tion with unknown mean μ and unknown standard deviation σ . A sample X1, X2, , X16 of i.i.d. random ken. The sample average of these 16 values comes out to be Xbar = 10.2 and the sample standard deviation confidence interval for the actual mean μ ?
a. (10.2, 11.2)	
o b. (7.2, 13.2)	
oc. (3,10.2)	
od. (8.6, 11.80)	✓
Your answer is correct. The correct answer is: (8.6, 11.80)	
→ Homework 10	

Homework 11 ►

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