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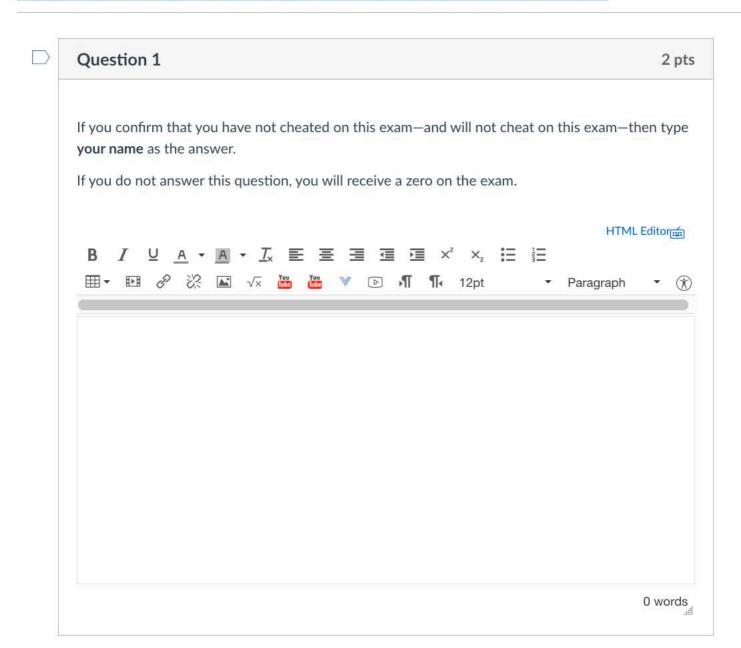
Started: May 5 at 10:38pm

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You can ask clarifying questions to your GEs and professor here:

Question 2		4 pts
For the (estimated) linear r	regression model	
Guilty _i = 0.21 - 0.04 Age _i +	e _i	
the variable <i>Guilty</i> is a bina <i>Age</i> is the defendant's age	ary indicator for whether a defendant in a court case was found $\mathfrak g$ at the time of the trial.	guilty and
Using this model, by how r	much does a 10-year increase in the defendant's <i>Age</i> reduce the	
	between 0 and 1 (so your answer should be between 0 and 1).	
		Next
Reminder: Probabilities are		Next

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You can ask clarifying questions to your GEs and professor here:

Question 3		4 pts	
For the (estimated) I	linear regression model		
$Guilty_i = 0.23 + 0.43$	3 Young _i + e _i		
	s a binary indicator for whether a defendant in a court case is found gui dicator for whether the defendant was younger than 30 years of age.	Ity and	
Using this model, wl guilty?	hat is the estimated probability that a 45-year-old defendant is found t	to be	
Reminder: Probabilities are between 0 and 1 (so your answer should be between 0 and 1).			
Kerimaer. 1 Tobabilit	des are between 0 and 1 (so your answer should be between 0 and 1).		
Kemmuer, 1100abiii	ies are between 0 and 1 (so your answer should be between 0 and 1).		
Nemmaer, Frobabilit	ies are between 0 and 1 (so your answer should be between 0 and 1).		
	ies are between 0 and 1 (so your answer should be between 0 and 1).		
◆ Previous	ies are between 0 and 1 (so your answer should be between 0 and 1).	Next	

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You can ask clarifying questions to your GEs and professor here:

Question 4		4 pts
For the (estimated) li	inear regression model	
$Guilty_i = 0.09 + 0.07$	$Young_i + 0.03 Male_i + 0.18 (Young_i)x(Male_i) + e_i$	
 Young is a binary 	ry is a binary indicator for whether a defendant in a court case is found indicator for whether the defendant is below 30 years of age ndicator for whether the defendant is male	guilty
Based upon this mod	del, how much more likely (as a probability) is it that an 18-year old ma	ale is
seembers to the seem state of the process of the seembers	to a 40-year old male?	
	00000000000000000000000000000000000000	
Reminder: Probabiliti	es are between 0 and 1 (so your answer should be between 0 and 1).	
Reminder: Probabiliti		Next
		Next

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You can ask clarifying questions to your GEs and professor here:

Question 5		4 pt
For the (estimated)	linear regression model	
$log(Income_i) = 0.4 +$	- 0.5 $\log(Education_i) + e_i$	
• Incomei is an inc	dividual's income (in thousands of dollars)	
 Education_i is an 	individual's education (in years)	
How do we interpr	ret the coefficient on education?	
○ A 1-percent incre	ase in education is associated with a 0.5% increase in income (holding all	else constant).
A 1-year increase	 A 1-year increase in education is associated with a 50% increase in income (holding all else constant) A 1-year increase in education is associated with a \$500 increase in income (holding all else constant) 	
A 1-year increase		
 The correct answ 	er is not given.	
◆ Previous		Next
Tevious		ITCAL

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You can ask clarifying questions to your GEs and professor here:

https://uoregon.zoom.us/j/91388850911?pwd=NkNsdDdDWFpycUp4NTh2b3RyOHFWQT09 2

Question 6	4 p	
For the (estimated) linear regression	model	
$Income_i = 0.4 + 0.5 Education_i + e_i$		
• Income; is an individual's income	(in thousands of dollars)	
 Education_i is an individual's educ 	ation (in years)	
How do we interpret the coefficient	on education?	
The correct answer is not given.		
A 1-year increase in education is associated with a \$500 increase in income (holding all else constant).		
○ A 1-percent increase in education is a	associated with a 0.5% increase in income (holding all else constant).	
○ A 1-year increase in education is asso	ociated with a 50% increase in income (holding all else constant).	
◆ Previous	Next	
Ticvious	Next	

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You can ask clarifying questions to your GEs and professor here:

>	Question 7	3 pts
	R squared (R ²) tells us the share of the varia	ance in y for which our regression model can account.
	○ True	
	○ False	
	◆ Previous	Next ▶
		Not saved Submit Quiz

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You can ask clarifying questions to your GEs and professor here:

Question 8	3 pts
Regressing y on x rather than log(y) on log(x) can c	ause heteroskedasticity.
○ True	
○ False	
◆ Previous	Next ▶
	Not saved Submit Qui

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You can ask clarifying questions to your GEs and professor here:

>	Question 9		3 pts
	In the presence of omitted variables, OLS is biased ar	nd inconsistent.	
	○ True		
	○ False		
	◆ Previous		Next •
		Not saved	Submit Quiz

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You can ask clarifying questions to your GEs and professor here:

Ques	tion 10	3 pts
	urement error in the explanatory variable (as defined in lecture) biases OLS regression ates (of coefficients) downward.	
○ Tru	ie e	
○ Fal	se	
◆ Prev	vious	Next ▶
	Not saved	Submit Qui

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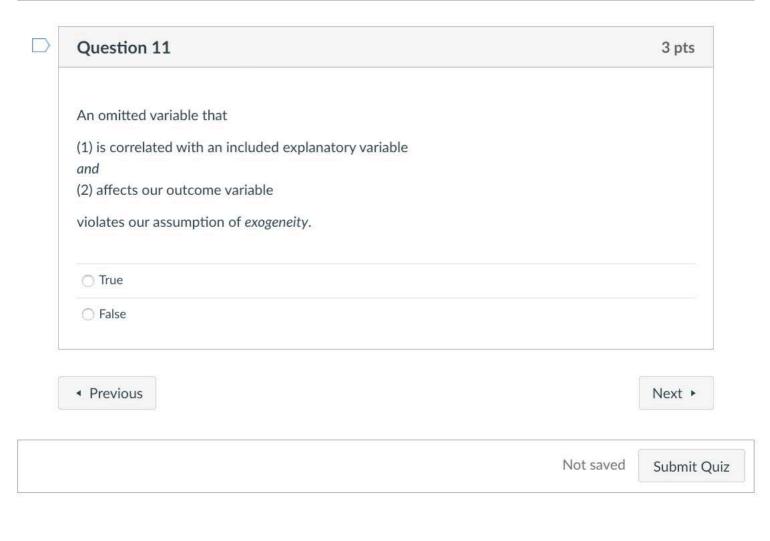
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You can ask clarifying questions to your GEs and professor here:

eraction between x_1 and x_2 .
Next •
Not saved Submit

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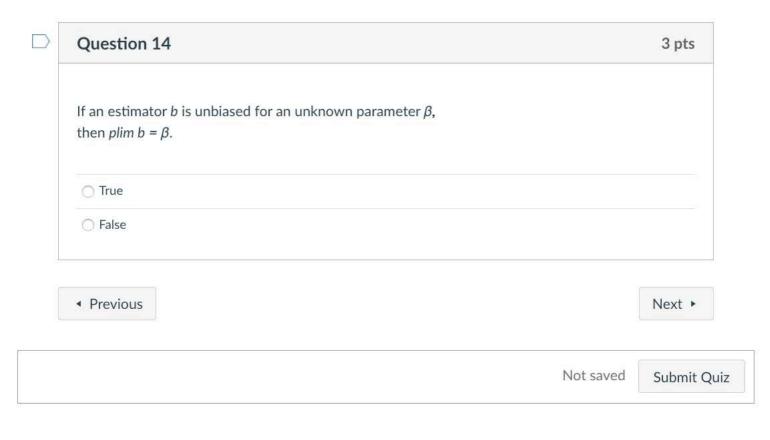
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You can ask clarifying questions to your GEs and professor here:

Q	Question 15		3 pts
	Veighted least squares (WLS) and OLS will produce different nd the standard errors.	estimates for both the coeffic	cients
) True		
() False		
4	Previous		Next ▶
		Not saved	Submit Qui

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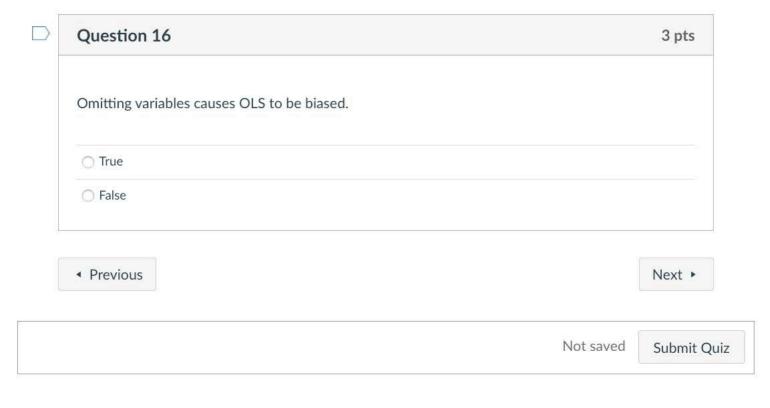
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You can ask clarifying questions to your GEs and professor here:

Q	Question 17		3 pts
	leasurement error happens when we have an explanatory varia mitted variable.	able that is correlated with an	ă.
) True		
() False		
•	Previous		Next ►
		Not saved	Submit Qui

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You can ask clarifying questions to your GEs and professor here:

Question 18	3 pts
Heteroskedasticity-robust standard errors a and when the disturbance is homoskedastic	re unbiased when our disturbance is heteroskedastic
○ True	
○ False	
◆ Previous	Next ▶
	Not saved Submit Qu

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You can ask clarifying questions to your GEs and professor here:

The linear regression model helow assumed	s that each additional year of adjustion has the same
effect on income.	s that each additional year of education has the same
$Income_i = 0.4 + 0.5 Education_i + 0.3 Female_i$	$i + e_i$
○ True	
○ False	
◆ Previous	Next ►

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You can ask clarifying questions to your GEs and professor here:

Q	Question 20		3 pts
	the presence of heteroskedasticity, weighted least squares (Wecause it downweights observations whose disturbances have		DLS
) True		
C	False		
4	Previous		Next ▶
		Not saved	Submit Qui

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You can ask clarifying questions to your GEs and professor here:

>	Question 21	3 pts
	If an estimator is unbiased, then it is also consisten	t.
	○ True	
	○ False	
	◆ Previous	Next ▶
		Not saved Submit Quiz

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You can ask clarifying questions to your GEs and professor here:

Question 22		3 pts
Imagine you have a dataset with individual's incom	mes and their sexes.	
True of False: If we regress $Income_i$ on an intercept variable for whether individual i is female), then the difference in incomes between females and non-	he coefficient on Female; will tell us the av	
○ True		
○ False		
B .		
◆ Previous		Next ►

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You can ask clarifying questions to your GEs and professor here:

Question 23	3 pts	
If the variances of our disturbances are corr violated exogeneity.	elated with an explanatory variable, then we have	
○ True		
○ False		
◆ Previous	Next ▶	
	Not saved Submit	Oui

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You can ask clarifying questions to your GEs and professor here:

Question 24	3 pts
To determine whether an individual's health affections of the original of the	cts her income, you estimate the following model
$Income_i = \beta_0 + \beta_1 Health_i + u_i$	
When testing H_0 : $\beta_1 = 0$, you get a <i>p-value</i> of 0.9	6.
True or False: The hypothesis test of β_1 will conc	lude that health does not affect income.
○ True	
○ False	
◆ Previous	Next ▶
◆ Previous	Next •

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You can ask clarifying questions to your GEs and professor here:

Questio	on 25	3 pts
Consister number o	cy refers to the mean of an estimator's distribution as we repeat the estimation a of times.	n infinite
○ True		
○ False		
◆ Previou	IS	Next ▶
	Not saved	Submit Qu

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You can ask clarifying questions to your GEs and professor here:

>	Question 26		3 pts
	The expected value of a random variable gives the v	variable's median value (in the population)	
	○ True		
	○ False		
	◆ Previous		Next ▶
		Not saved	Submit Quiz

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You can ask clarifying questions to your GEs and professor here:

OLS will be biased upward.

Question 27	3 pts
We are interested in estimating the relationship between <i>Income</i> and <i>Experience</i> , but we're concerned about omitted-variable bias. Specifically, we're concerned about the omitted varial <i>Ability</i> .	ble
Suppose the true model is	
$Income_i = \beta_0 + \beta_1 Experience_i + \beta_2 Ability_i + u_i$	
but we omit Ability.	
Suppose	
• β ₀ >0	
 β₁>0 β₂>0 	
• Experience and Ability are uncorrelated.	
How does omitting Ability affect our estimate for the coefficient on Experience?	
OLS will be biased downward.	
OLS will be unbiased.	
The correct answer is not given.	

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You can ask clarifying questions to your GEs and professor here:

OLS will be biased downward.

Question 28	3 pts
We are interested in estimating the relationship between <i>Income</i> and <i>Experience</i> , but we're concerned about omitted-variable bias. Specifically, we're concerned about the omitted varial <i>Ability</i> .	ole
Suppose the true model is	
$Income_i = \beta_0 + \beta_1 Experience_i + \beta_2 Ability_i + u_i$	
but we omit Ability.	
Suppose	
β₀>0β₁<0	
• β ₂ <0	
 Experience and Ability are negatively correlated. 	
How does omitting Ability affect our estimate for the coefficient on Experience?	
OLS will be unbiased.	
The correct answer is not given.	
OLS will be biased upward.	

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You can ask clarifying questions to your GEs and professor here:

Question 29	3 μ
We are interested in estimating the relationship between <i>Incom</i> concerned about omitted-variable bias. Specifically, we're concerned about omitted-variable bias.	
Suppose the true model is	
$Income_i = \beta_0 + \beta_1 Experience_i + \beta_2 Ability_i + u_i$	
but we omit Ability.	
Suppose	
• β ₀ >0	
β₁>0β₂>0	
 Experience and Ability are positively correlated. 	
How does omitting Ability affect our estimate for the coefficien	t on Experience?
The correct answer is not given.	
OLS will be unbiased.	
OLS will be biased downward.	
OLS will be biased upward.	

① This is a preview of the draft version of the quiz

Started: May 5 at 10:38pm

Quiz Instructions

Rules for the exam

- 1. You have from 2pm to 3:20pm to complete this exam.
- 2. This exam is open book: You can use the book, notes, videos, assignments, previous exams, etc.
- 3. You cannot discuss the exam with anyone until it is finished (no classmates, roommates, parents, children, pets, etc.).
- 4. If you are suspected of **cheating**, you will receive a 0 on this exam—and potentially the course. We may also report you to the dean.

You can ask clarifying questions to your GEs and professor here:

Question 30		3 pts
	which of the following statements are true?	
(Check all correct answers. Assume a	all other assumptions are met.)	
OLS coefficients are unbiased.		
WLS is more efficient than OLS.		
OLS standard errors are biased down	ward.	
WLS standard errors are valid.		
OLS standard errors are biased upwar	d.	
◆ Previous		Next ▶
	Not saved	Submit Qu

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Question 31	3 pts
If you detect the presence of heteroskedastici the problems associated with heteroskedastic	ity, which of the following methods are "solutions" to
(Choose all correct answers.)	
Checking your specification	
Heteroskedasticity-robust standard errors.	
Run a White test.	
Removing outliers	
☐ Weighted least squares	
◆ Previous	Next ▶
	Not saved Submit

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You can ask clarifying questions to your GEs and professor here:

Question 32	3 pts
What are the "problems" caused by heteroskedasticity?	
☐ Biased standard errors	
☐ Invalid inference	
OLS is less efficient	
☐ Biased coefficients	
Exogeneity is an invalid assumption.	
◆ Previous	