Guideline Quizzes for Module 10

Question 1	1 point
Which of the following best describes a 'factor' in the context of regression analysis?	
Choose at least one correct answer	
A quantitative explanatory variable	
B A qualitative (categorical) explanatory variable	Correct answer
C The response variable	
D The error term	
Question 2	1 point
The primary motivations for including a factor in a regression model are	
Choose at least one correct answer	
A To increase the complexity of the model	
B To make the model easier to interpret	
To account more fully for the response variable and avoid biased assessment of other explanatory variables	Correct answer
To reduce the number of explanatory variables	
Question 3	1 point
If the relationship between an explanatory variable and the response variable change	s depending on the

value of another explanatory variable, this suggests

Choose at least one correct answer

An additive relationship

B	B. An interaction effect	Correct answer
©	A simple linear relationship	
D	A non-linear relationship	
Que	stion 4	1 point
	n of the following is NOT an assumption of the regression model discussed in the cont ole regression?	text of dummy
Choos	se at least one correct answer	
A	The errors are normally distributed	
B	The errors have a non-constant variance	Correct answer
©	The errors are independent	
D	The errors have zero means	
Que	stion 5	1 point
	egression model with a dummy variable representing gender (male = 0, female = 1), w cient of the dummy variable represent?	hat does the
Choos	se at least one correct answer	
A	The difference in average income between males and females, holding other variables constant	Correct answer
В	The average income for females	
©	The ratio of average income between males and females	
D	The average income for males	