Instructions

Before attempting the quiz, please make sure you are familiar with the material covered in class. For questions 7-10, you need to use RStudio and RMarkdown and read Ch. 1 and 3 and the first section of Ch. 5 from a **Guide to R.** (https://rpubs.com/wsundstrom/home)

Here is a R Markdown Cheatsheet and and R Markdown Reference that you might find useful.

Notice that the RMarkdown loads GrowthSW data (available in AER package) that contains information on average growth rates over 1960–1995 for 65 countries.

Second, use stargazer command to create a table of summary statistics and use Im command to run a simple regression.

Here is more information on **Stargazer** a command.

Question 1 1 / 1 pts

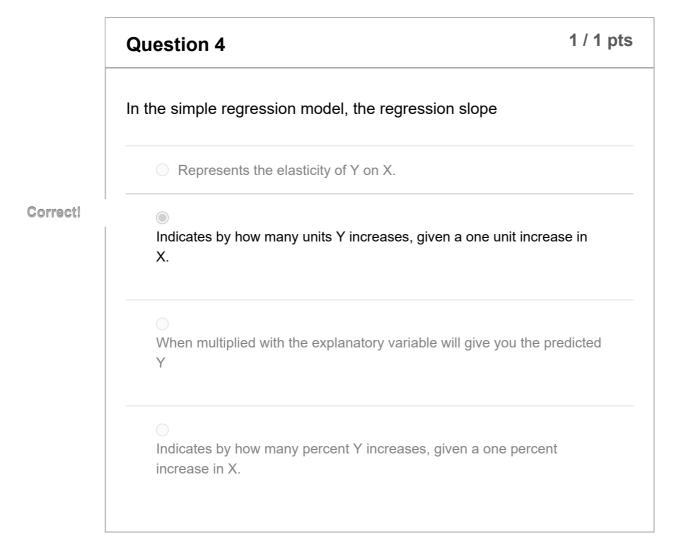
| | Econometrics can be defined as follows with the exception of |
|----------|---|
| | The science of testing economic theory |
| | Fitting mathematical models to real-world data |
| Correct! | Measuring the height of economists |
| | A set of tools used for forecasting future values of economic variables |

| | Question 2 | / 1 pts |
|----------|--|---------|
| | A low correlation coefficient implies that: | |
| | The line always has a flat slope | |
| | The two variables are unrelated | |
| Correct! | In the scatterplots, the point fall quite far away from the line. | |
| | You should use a tighter scale of the vertical and horizontal axis to bri observations closer to the line. | ing |

Question 3 1/1 pts Your textbook presented you with the following regression output: TestScore = 698.9 - 2.28* STR; n=420 According to these estimates, you learn that:

| An increase in percent. | n the STR by 1% will d | ecrease the test scores b | y 2.28 |
|------------------------------|------------------------|---------------------------|--------------|
| A decrease in by 2.28 points | | teacher will decrease the | e test score |
| An increase in scores by 2.2 | • | teacher will decrease th | e test |
| | | | |

Correct!



Question 5

1/1 pts

Your textbook presented you with the following regression output:

TestScore = 698.9 - 2.28* STR; n=420

If you decided one day to divide STR by 10:

Correct!

The intercept will remain unchanged and the slope will increase.

The intercept will decrease and the slope remains unchanged.

- The intercept will decrease and the slope will decrease.
- The intercept will increase and the slope will increase.

Question 6 1 / 1 pts

Your textbook presented you with the following regression output:

TestScore = 698.9 - 2.28* STR; n=420

If you decided one day to measure TestScores in 100s (i.e. a test score of 650 became 6.5), then:

The intercept will increase and the slope will increase.

Correct!

- The intercept will decrease and the slope will decrease.
- The intercept will remain unchanged and the slope will increase.
- The intercept will decrease and the slope remains unchanged.

Question 7 1 / 1 pts

| | Using Growth and Trade dataset, the mean growth rate is: |
|----------|--|
| | O 1.3 |
| Correct! | 1.94 |
| | O 1.5 |
| | 0.56 |
| | |
| ſ | |

| | Question 8 | 1 pts |
|----------|--|-------|
| | Using Growth and Trade dataset, the standard deviation of the trashare is: | ade |
| Correct! | 0.29 | |
| | 0.56 | |
| | O 1.9 | |
| | 0 1.3 | |

| | Question 9 | 1 / 1 pts |
|----------|---|-----------|
| | If you run a simple regression of growth rat that the intercept is and the slope is | - |
| | 0.64; 0.77. | |
| Correct! | 0.64; 2.3 | |
| | 1.5; 1.8 | |

| 0.56; 0.77. | | | |
|-------------|--|--|--|
| | | | |

| Question 10 | 1 / 1 pts | | |
|---|--|--|--|
| The correlation coefficient between growth rate and trade share is: | | | |
| O 0.3 | | | |
| © 0.35 | | | |
| O 0.49 | | | |
| O 0.77 | | | |
| | The correlation coefficient between growth rate and trade 0.3 0.35 0.49 | | |

Quiz Score: 10 out of 10