Student: Date:	Instructor: Richeng Piao Course: ECON 2560 - Applied Econome	etrics Assignment: Practice Problem Set 1
provided to me are intended sol question set available to any thi	I will not redistribute the practice question set. I underst ely for personal use and reference. I will not share, copyrd parties without explicit authorization from the rightful confidentiality associated with the practice question set a	y, reproduce, distribute, or make the practice owner or the authorized distributor. I respect the
Signature		Date
Econometrics can be defined	as follows with the exception of:	
O A. the science of testing	economic theory.	
OB. measuring the height	of economists.	
Oc. a set of tools used for	forecasting future values of economic variables.	
O. fitting mathematical e	conomic models to real-world data.	
Answer: B. measuring the h	eight of economists.	
ID: Test B Ex 1.1.1		
2. One of the primary advantage	es of using econometrics over typical results from econo	omic theory is that:
O A. you learn how to inve	rt a 4 by 4 matrix.	
OB. it teaches you how to	use statistical packages.	
	you with quantitative answers for a policy problem rathon (positive/negative) of the response.	er than simply
O. all of the above.		
	es you with quantitative answers for a policy problem ranegative) of the response.	ather than simply suggesting the
ID: Test B Ex 1.1.2		

Suppose that you want to measure the causal effect of hours spent studying on the performance on a microeconomics exam for a class of 30 students.				
Which of the following could be an ideal randomized controlled experiment to study the desired causal effect?				
A. Allow fifteen students, chosen at random, an extra day to study for the microeconomics exam. Then measure the exam score differences between students who got the extra day to study and those that did not.				
B. Allow all students an extra day to study for the microeconomics exam. Then measure the exam score difference between the student with the highest score and lowest score respectively.				
C. Allow the fifteen students with the highest grades in the class an extra day to study for the microeconomics exam. Then measure the exam score differences between students who got the extra day to study and those that did not.				
O. All of the above could be ideal randomized controlled experiments.				
Consider the following randomized controlled experiment:				
You allow fifteen students, chosen at random, an extra day to study for the microeconomics exam, and then measure the score difference between those who got the extra day to study and those that did not.				
Which of the following could be impediments to implementing this experiment in practice?				
○ A. It could be considered unethical to allow some students more time to study.				
 B. It could be against school policy to administer the same exam to two different groups of students in the same class on different days. 				
 C. It could be costly to administer the same exam to two different groups of students in the same class on different days. 				
O. A and C only.				
○ E. All of the above could be impediments to implementing this experiment in practice.				
Answers A.				
Allow fifteen students, chosen at random, an extra day to study for the microeconomics exam. Then measure the exam score differences between students who got the extra day to study and those that did not.				
E. All of the above could be impediments to implementing this experiment in practice.				
ID: Review Concept 1.1				
E. Herion Concept				

3.

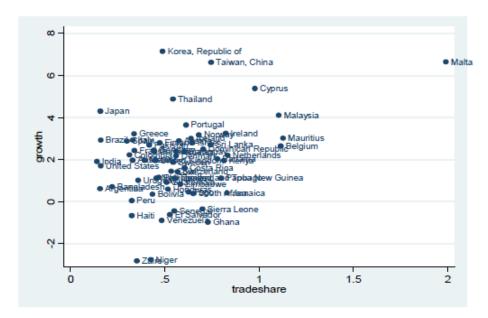
D: Review Concept 1.2 (essay)			
5. 1.6view Gorioopt 1.2 (635ay)			

5.	In a randomized controlled experiment:	
	○ A. there is a control group and a treatment group.	
	B. you control for random answers.	
	the control group receives treatment on even days only.	
	O. you control for the effect that random numbers are not truly ra	andomly generated.
	Answer: A. there is a control group and a treatment group.	
	ID: Test A Ex 1.2.1	
6.	You are asked to study the causal effect of hours spent on	a. an observational cross – sectional data set.
	employee training (measured in hours per worker per week) in a manufacturing plant on the productivity of its workers (output per	b . an ideal randomized controlled experiment.
	worker per hour).	c. an observational time series data set.
	Write in the box the option <i>letter</i> (a, b, c or d) on the right that best	d. an observational panel data set.
	describes the statement on the left.	d. an observational parier data set.
	Choose a random group of employees to receive ten hours per week in additional training for a period of four weeks. Then,	
	estimate the difference in productivity between workers who	
	received the additional training and those that did not. Option best describes this statement.	
	Data on hours spent on training a group of ten different employees in a certain day. Option best describes this	
	statement.	
	Data on hours spent on training the same employee for seven	
	consecutive days. Option best describes this	
	statement.	
	Data on hours spent training for a group of ten different employees for seven consecutive days. Option best describes	
	this statement.	
	Answers b	
	a	
	C	
	d	
	ID: Review Concept 1.3	
7.	Analyzing the behavior of unemployment rates across U.S. states in l	March of 2010 is an example of using:
	A. time series data.	
	B. experimental data.	
	C. panel data.	
	D. cross-sectional data.	
	Answer: D. cross-sectional data.	
	ID: Took A Ford 0.0	
	ID: Test A Ex 1.3.2	

	○ A. cross-sectional data.
	○ B. panel data.
	having a treatment group versus a control group, since only teenagers receive minimum wages.
	O. time series data.
	Answer: B. panel data.
	ID: Test A Ex 1.3.3
).	The accompanying graph is an example of:
	OS. Unemployment Rate in %
	Year
	○ A. longitudinal data.
	B. a time series.
	○ C. experimental data.
	O. cross-sectional data.
	Answer: B. a time series.
	ID: Test A Ex 1.3.4
0.	Which type of experimental or observational data in econometrics contain multiple entities observed for two or more time periods?
	○ A. cross-sectional data.
	○ B. randomly generated data.
	○ C. time series data.
	O. panel data.
	Answer: D. panel data.

11.	Studying inflation in the United States from 1970 to 2010 is an example of using:
	O A. panel data.
	O B. time series data.
	○ C. randomized controlled experiments.
	O. cross-sectional data.
	Answer: B. time series data.
	ID: Test B Ex 1.3.3
12.	The reason why economists do not use experimental data more frequently is for all of the following reasons <i>except</i> that real-world experiments:
	O A. are often unethical.
	O B. with humans are difficult to administer.
	○ C. cannot be executed in economics.
	O. have flaws relative to ideal randomized controlled experiments.
	Answer: C. cannot be executed in economics.
	ID: Test B Ex 1.3.4

13. In the graph below, the vertical axis represents average real GDP growth for 65 countries over the period 1960–1995, and the horizontal axis shows the average trade share within these countries.



This is an example of:

- A. experimental data.
- B. a time series.
- Oc. cross-sectional data.
- O D. longitudinal data.

Answer: C. cross-sectional data.

ID: Test B Ex 1.3.5