Microeconomics 9th Edition Parkin Test Bank

Exam				
Name				
MULTIPI	LE CHOICE. Choose the one alternative that best co	mpletes the statement or answers the question	۱.	
1)	All economic questions are about A) what to produce. C) how to satisfy all our wants. Answer: B	B) how to cope with scarcity. D) how to make money.	1)	
2)	An incentive A) could be either a reward or a penalty. B) could be a penalty but could not be a reward. C) is the opposite of a tradeoff. D) could be a reward but could not be a penalty. Answer: A		2)	
3)	An inducement to take a particular action is calledA) the marginal benefit.C) an incentive.	B) opportunity cost. D) the marginal cost.	3)	
4)	Answer: C All economic questions arise because we A) have an abundance of resources. B) have limited wants that need to be satisfied. C) want more than we can get. D) want more than we need. Answer: C		4)	
5)	 The most fundamental economic problem is A) scarcity. B) security. C) health. D) the fact the United States buys more goods from Answer: A 	n foreigners than we sell to foreigners.	5)	
6)	Economics is best defined as the study of how people A) use their infinite resources. C) make choices to cope with scarcity. Answer: C	e, businesses, governments, and societies B) choose abundance over scarcity. D) attain wealth.	6)	
7)	Scarcity is a situation in which A) most people can get only bare necessities. B) people can satisfy all their wants. C) some people can get all they want and some car D) people cannot satisfy all their wants. Answer: D	nnot.	7)	

A) the rich but not the poor. C) neither the poor nor the rich. B) both the poor and the rich. D) the poor but not the rich.			8)
Answer: B	b) the poor but not the	TIGH.	
9) Scarcity requires that people mustA) trade.B) cooperate.Answer: C	C) make choices.	D) compete.	9)
10) All economic questions arise becauseA) we want more than we can get.C) people are greedy.Answer: A	B) production possibilit D) people are irrational		10)
 11) Scarcity is A) when a child wants a \$1.00 can of soda and two B) our inability to satisfy all our wants. C) an economic problem only for poor people. D) a situation that exists during economic recession Answer: B 		·	11)
12) Scarcity arises fromA) exploration.C) limited resources and limitless wants.Answer: C	B) limited wants and lin		12)
 13) When an economist talks of scarcity, the economist is A) ability of society to employ all of its resources. B) inability of society to satisfy all human wants b C) ability of society to continually make technolog D) ability of society to consume all that it produces Answer: B 	ecause of limited resource ical breakthroughs and ir		13)
14) Scarcity is experienced byA) only the poor.C) only the wealthy.Answer: B	B) everyone. D) only producers.		14)
 15) Fundamental economic problems basically arise from A) the fact that society has more than it needs. B) the unequal distribution of income. C) turmoil in the stock market. D) our wants exceeding our scarce resources. Answer: D 	า		15)

16) Scarcity exists because		16)
A) of the inefficient choices we make.B) poor people need more food and other goods.		
C) our wants exceed the resources available to sat	isfy them.	
D) society and people are greedy and wasteful.	,	
Answer: C		
17) Scarcity can be eliminated through		17)
A) wise use of our resources.		
B) the use of market mechanisms.		
C) exploration that helps us find new resources.D) None of the above because scarcity cannot be e	liminated	
Answer: D	miniatea.	
Allswei. D		
18) As an economic concept, scarcity applies to		18)
A) neither time nor money.	B) money but not time.	
C) time but not money.	D) both money and time.	
Answer: D		
19) Scarcity is common to all economic systems because	resources are	19)
A) unlimited due to constant technological advance		
B) unlimited and so are human desires and wants		
C) limited and so are human desires and wants.D) limited, but human desires and wants are unlir	nited	
Answer: D	mitea.	
Allswei. D		
20) People must make choices because		20)
A) there are many goods available.	B) of scarcity.	
C) most people enjoy shopping.	D) None of the above answers is correct.	
Answer: B		
21) The problem of "scarcity" applies		21)
A) only in industrially developed countries because	se resources are scarce in these countries.	
 B) only in economic systems that are just beginning scarce. 	ng to develop because specialized resources are	
C) only in underdeveloped countries because ther	e are few productive resources in these	
countries.	al af da ulamus m	
D) to all economic systems, regardless of their leve	ei of development.	
Answer: D		
22) When a wealthy businessman is unable to buy ticket	s to the Super Bowl, he or she experiences	22)
A) opportunity costs	B) scarcity	
C) economics	D) the fallacy of composition	
Answer: B	, , , , , , , , , , , , , , , , , , , ,	
23) In every economic system, choices must be made bed	cause resources are and our wants are	23)
	and our wants die	
A) limited; limited	B) unlimited; unlimited	
C) unlimited; limited	D) limited; unlimited	
Answer: D		

24) The fundamental questions in economics	result from	24)
A) distribution of income.		
B) an excess of production over the wa	nts of society.	
C) technological progress.		
D) scarcity of resources relative to the	wants of society.	
Answer: D		
25) Economics is best defined as		25)
A) making choices with unlimited wan	its but facing a scarcity of resources.	
B) how people make money and profit		
C) making choices from an unlimited s		
D) controlling a budget for a household	d.	
Answer: A		
26) The study of economics		26)
A) recognizes that scarcity does not aff	ect rich nations.	
B) focuses mainly on individual consu		
C) arises from the fact that our wants e	exceed available resources.	
D) deals mainly with microeconomics.		
Answer: C		
27) Economics is best defined as the science of	of choice and how people cope with	27)
A) differences in needs.	B) differences in wants.	
C) different economic systems.	D) scarcity.	
Answer: D	•	
28) Which of the following best defines the su	-	28)
A) the study of choices that businesses	make to maximize profit	
B) the art of making money		
C) the science that studies unemploym	<u> </u>	
D) the study of choices made to cope w	nth scarcity	
Answer: D		
29) Economics is the study of		29)
A) the distribution of surplus goods to	those in need.	
B) ways to reduce wants to eliminate t		
C) affluence in a morally bankrupt wo		
D) the choices we make because of scar	city.	
Answer: D		
30) Which of the following is a macroeconom	nic topic?	30)
A) the reasons for the rise in average p	•	
B) whether the army should buy more	tanks or more rockets	
C) the reasons for a rise in the price of	= -	
D) why plumbers earn more than janite	ors	
Answer: A		
31) The study of the choices made by individ	uals is part of the definition of	31)
A) normative economics.	B) macroeconomics.	·
C) microeconomics.	D) positive economics.	

32)	In part, microeconomics is concerned with		32)
	A) changes in the economy's total output of goods	and services over long periods of time.	
	B) the Federal Reserve's policy decisions.		
	C) how a business firm decides upon the amount iD) factors that explain changes in the unemployment	·	
	, , , , , , , , , , , , , , , , , , , ,	entrate over time.	
	Answer: C		
33)	The study of the decisions of individual units in the ϵ	economy is known as	33)
·	A) the study of incentives.	B) macroeconomics.	-
	C) microeconomics.	D) ceteris paribus study.	
	Answer: C		
24)	Which of the following is an example of a microscon	amic decicion?	24)
34)	Which of the following is an example of a microecon A) a small shoe factory deciding how much leather		34)
	need	to parchase for the next quarter's production	
	B) an individual deciding how to allocate the time	he or she has for work and leisure	
	C) a multinational company deciding where to rel		
	D) All of the above answers are correct.		
	Answer: D		
35)	Which term <i>best</i> describes the study of the decisions o	of neonle and husinesses and the interaction of	35)
	these decisions?	or people and businesses and the interaction of	
	A) macroeconomics	B) marginal study	
	C) microeconomics	D) scarcity science	
	Answer: C	·	
36)	Which of the following questions is a topic that woul		36)
	A) How will a lower price of digital cameras affect		
	B) What is the current unemployment rate in the U		
	C) Will the current budget deficit affect the well-bD) Why did production and the number of jobs sh	=	
	Answer: B	THIK III 2000:	
	Allswel. b		
37)	An example of a question that might be explored in r	microeconomics is to determine	37)
	A) savings by the household sector.		
	B) why the U.S. economy has grown more rapidly		
	C) the total employment within the U.S. economy.		
	D) the number of workers employed by Intel.		
	Answer: D		
38)	One topic of study for a microeconomist would be th	e	38)
- /	A) effects of an increase in government spending of		,
	B) effects an increase in the price of gasoline has o		
	C) factors that lead to inflation.		
	D) factors that affect aggregate unemployment.		
	Answer: B		

39) In part, microeconomics is concerned with	the study of	39)
 A) national output of goods and services 	S.	-
B) the Federal Reserve's policies.		
C) the effect government regulation has	on the price of a product.	
D) unemployment and economic growth	n.	
Answer: C		
A HISWEIT.		
40) The branch of economics that deals with th	as analysis of the whole economy is called	40)
A) marginal analysis.	B) metroanalysis.	
C) microeconomics.	D) macroeconomics.	
·	b) macroeconomics.	
Answer: D		
41) Macroeconomics is concerned with		41)
A) economy-wide variables.		,
B) government decision making concern	aing farm price supports	
C) individual consumers.	mig turm price supports.	
D) the effects on Ford Motor of a strike b	ov the United Auto Workers	
	y the office Acto Workers.	
Answer: A		
42) Magraganamics differs from microscopen	ples in that	42)
42) Macroeconomics differs from microeconom		42)
·	r of government while microeconomics looks at private	
corporations.	and accompany and the allebel accompany	
B) macroeconomics focuses on the natio		
C) macroeconomics studies the decision		
D) microeconomics looks at the economy	y as a wnoie.	
Answer: B		
43) Which of the following is a macroeconomic	c decision or concent?	43)
A) how many television sets to produce		
B) the unemployment rate for each firm		
C) the price of oil		
D) the unemployment rate for the entire	occonomy	
	economy	
Answer: D		
44) Which of the following questions is a macr	oeconomic issue?	44)
A) What is the future growth prospect for		
B) What effect would a cure for Mad Co	<u> </u>	
•	will a consumer purchase if the price of cookies	
decreases?	will a dolladifier parollage if the price of dockles	
D) How many workers should the owner	er of a husiness hire?	
Answer: A	a of a basilioss fill of	
Albwol. A		
45) Which of the following is a microeconomic	: topic?	45)
A) The effect of the government budget	deficit on inflation.	
B) The reasons why Kathy buys less ora	nge juice.	
C) The reasons why total employment d	9 5	
D) The reasons for a decline in average r		

46)	Microeconomics focuses on all of the following EXCEP	<u>T</u> the	46)
	A) effect on inflation of increasing the money supply	y .	
	B) hiring decisions made by a business.		
	C) effect on cigarette sales of an increase in the tax of	-	
	D) purchasing decisions made by an individual cons	sumer.	
	Answer: A		
47)	In broad terms the difference between microeconomics	and macroeconomics is that	47)
	 A) microeconomics studies decisions of individual p studies the entire national economy. 	people and firms and macroeconomics	
	B) they use different sets of tools and ideas.		
	C) microeconomics studies the effects of governmen		
	 D) macroeconomics studies the effects of government individual goods and services whereas microeconomics 	•	
	Answer: A		
48)	Studying the determination of prices in individual mar	kets is primarily a concern of	48)
	A) microeconomics.	B) macroeconomics.	
	C) negative economics.	D) positive economics.	
	Answer: A		
49)	The analysis of the behavior of individual decision-ma	aking units is the definition of	49)
	A) positive economics.	B) normative economics.	
	C) microeconomics.	D) macroeconomics.	
	Answer: C		
50)	Which of the following is a microeconomic topic?		50)
	A) How rent ceilings impact the supply of apartmen	its.	
	B) How a tax rate increase will impact total product		
	C) How a trade agreement between the United State	es and Mexico affects both nations'	
	unemployment rates.		
	D) Comparing inflation rates across countries.		
	Answer: A		
51)	Which of the following questions is <u>NOT</u> a microecond		51)
	A) What is Britney's opportunity cost of having another	<u> </u>	
	B) Does the United States have a comparative advar	9	
	C) Can the Federal Reserve keep income growing by	y cutting interest rates?	
	D) How would a tax on e-commerce affect eBay?		
	Answer: C		
52)	Which of the following is a macroeconomic issue?		52)
	A) What determines the amount a firm will produce		
	B) How federal government budget deficits affect in		
	C) How a rise in the price of sugar affects the market		
	D) The cause of a decline in the price of peanut butte	er.	

53) Which of the following is a macroeconomic issue?		53)
 A) The hiring decisions that a business makes. 		
B) The effect of an increase in the tax on cigarette	es on cigarette sales.	
C) The purchasing decisions that an individual control		
D) The effect of increasing the money supply on	inflation.	
Answer: D		
54) Macroeconomic topics include		54)
A) studying what factors influence the price and	quantity of automobiles.	
B) total, nationwide employment.		
C) the impact of government regulation of market		
D) studying the determination of wages and prod	duction costs in the software industry.	
Answer: B		
55) Macroeconomics is the branch of economics that stu	udies	55)
A) the economy as a whole.	B) important, as opposed to trivial, issues.	
C) prices of individual goods.	D) the way individual markets work.	
Answer: A		
56) The fact that wants cannot be fully satisfied with av		56)
A) the big tradeoff.	B) the what tradeoff.	
C) for whom to produce.	D) scarcity.	
Answer: D		
57) Studying the effects choices have on the individual	- · · · · · · · · · · · · · · · · · · ·	57)
A) incentives.	B) macroeconomics.	
C) scarcity.	D) microeconomics.	
Answer: D		
58) Economics can be defined as the social science that	explains the	58)
A) choices made by households		
B) choices we make when we trade in markets		
C) choices that we make as we cope with scarcity	1	
D) choices made by politicians		
Answer: C		
59) Scarcity is a situation in which		59)
A) some people are poor and others are rich	B) long lines form at gas stations	
C) we are unable to satisfy all our wants	D) something is being wasted	
Answer: C		
(0) 14		(0)
60) Microeconomics is the study of		60)
A) the global economy		
B) all aspects of scarcity	alea	
C) the choices that individuals and businesses ma	dKE	
D) the national economy		

1) When an economy produces more houses and fewer typewriters, it is answering the question.				
A) "where"	B) "how"	C) "for whom"	D) "what"	
Answer: D				
	an economy start producing mor question.	re computers and fewer tele	evisions, they are	62)
A) "where"	B) "for whom"	C) "what"	D) "when"	
Answer: C				
•	e objects that we value and are w			63)
A) Capital is		B) Wants are		
C) Resource	s are	D) Goods and service	ces are	
Answer: D				
64) If Taco Bell dec	cides to produce more tacos and t	fewer burritos, Taco Bell is	answering the	64)
A) "scarcity"	B) "why"	C) "when"	D) "what"	
Answer: C				
65) When a farmer	decides to raise hogs instead of	cattle, the farmer is answeri	ing the	65)
question. A) "for whor	m" B) "why"	C) "what"	D) "how"	
Answer: C	, ,	,	,	
66) When a farmer	decides to grow sugar cane inste	ead of radishes, the farmer i	s answering the	66)
A) "for whor		C) "why"	D) "what"	
Answer: D				
	y decides to produce fewer bomb	pers and more public housing	ng projects, it is	67)
A) "for whor	•	C) "how"	D) "defense"	
Answer: B	,	,	,	
•	ecides to produce more electric ca	ars and fewer gas guzzlers,	it is most directly	68)
_	question.	0) 6	D)	
A) "what"	B) "how"	C) "for whom"	D) "scarcity"	
Answer: A				
	firm decides to produce more corring the question.	tton fabric and less syntheti	c fabric, it is most	69)
A) "how"	B) "what"	C) "why"	D) "for whom"	
Answer: B				
	decide to produce more compac		e price of gasoline rises.	70)
Producers are a A) "how"	answering the question B) "what"	C) "how many"	D) "when"	
Answer: B				

71) The question "Shoul	d CDs or DVDs be produced	d?" is an example of the	71)
A) "for whom" qu		B) "what" question.	
C) "where" questi	on.	D) "how" question.	
Answer: B			
72) Which of the follow	ing statements is correct?		72)
	ates produces an equal amou	<u> </u>	
	ates produces more goods th		
	ates produces more services		vor
the last 60 year		in the United States has steadily increased o	vei
Answer: C			
73) In the United States	the percentage of people en	nployed in over the last 60 years.	73)
A) farming has in		B) manufacturing has increased	
C) services has de		D) construction has increased	
Answer: A			
74) In the U.S. economy	, which of the following stat	ements is true?	74)
		the proportion of production that is devoted	to
producing ser			
, ,	re produced than services.		
	are produced than goods. divided evenly between goo	de and convices	
Answer: C	arvided everify between good	us and services.	
		oduction, the U.S. economy has produced mo	ore 75)
A) agricultural prC) services.	oducts.	B) goods.D) goods and services.	
Answer: C		b) goods and services.	
Allswei. C			
	, a recent trend has been tha		76)
		rvice industry has been decreasing.	
	n agriculture has been increa	•	
	n the service industry has be	manufacturing has been increasing. en increasing	
Answer: D	Title service madsiry has be	en moreusnig.	
77) The largest part of o	uhat tha I luitad Ctatas muadu		77\
	ion and entertainment	ces today is such as B) services; textbooks and computers	77)
_	nd electronic equipment	D) services; trade and health care	
Answer: D		,	
78) When China builds	a dam using few machines a	nd a great deal of labor, it is answering the	78)
question.		5	/
A) "how"	B) "what"	C) "where" D) "for whor	n"
Answer A			

			ory using a computer and	its competitor uses a	79)
			the question.		
F	A) "how"	B) "where"	C) "for whom"	D) "what"	
An	swer: A				
	nether a company produ estion of	uces fishing rods mostl	y by hand or using high-to	ech machinery is a	80)
	A) why will the goods b	pe produced.	B) how will the good	ds be produced.	
	C) for whom will goods	•	D) where will the go	•	
Ans	swer: B				
	nen a California farmer rkers, the farmer is ans		uce by the use of machines	instead of by migrant	81)
	A) "what"	B) "for whom"	C) "scarcity"	D) "how"	
	swer: D	b) for whom	C) Scarcity	D) NOW	
-	nen a farmer decides to mer is answering the		ge machines instead of by	migrant workers, the	82)
	4) "why"	B) "what"	C) "scarcity"	D) "how"	
An	swer: D				
83) Wh	nen a lawver decides to	type a brief on a comp	uter rather than use a type	ewriter, the lawver is	83)
	swering the q		a.c a	in the fact of the second	
	A) "what"	B) "why"	C) "how"	D) "scarcity"	
Ans	swer: C				
	nen a firm decides to pr question.	oduce computers usinç	grobots instead of people,	it is answering the	84)
	A) "scarcity"	B) "why"	C) "what"	D) "how"	
	swer: D	, 3	,	•	
85) To	meet increased demand	d for its good, a firm de	ecides to hire a few high-s	killed workers rather	85)
		•	answering the q		
	A) "what"	B) "how"	C) "scarcity"	D) "when"	
An	swer: B				
86) An	art museum decides to	offer tours by having	visitors listen to cassette ta	pes rather than have	86)
	r guides. The museum			'	´
A	ጓ) ["] why"	B) "scarcity"	C) "how"	D) "what"	
An	swer: C				
87) Hu	man capital is				87)
		individuals, but not by	corporations or governm	ents.	
	B) the skill and knowle				
			fety standards for use by h		
	· · · · · · · · · · · · · · · · · · ·	individuals or corpora	tions, but not by governm	ents.	
Ans	swer: B				

88) Entrepreneurs do all of the	e following <u>EXCEPT</u>			88)
A) come up with new ideas about what and how to produce.B) organize labor, land, and capital.C) bear risk from business decisions.				
D) own all the other res	ources used in the produ	iction process.		
Answer: D				
89) To answer the "for whom"	question, we study	5)		89)
A) business cycles.C) the global economy.		B) technological changD) income differences.	je.	
Answer: D				
90) The fact that people with	higher incomes get to cor	nsume more goods and ser	vices addresses the	90)
question.	D) "b a "	C) "b.o.ro"	D) "for b ore"	
A) "when" Answer: D	B) "how"	C) "where"	D) "for whom"	
91) Which of the following is A) the effort of farmers		on?		91)
•	ol a nuclear power plant.			
C) the management skiD) the wages paid to w	II of a small business ow	ner.		
Answer: D	OI NEI 3.			
92) Which of the following areI. Land	e considered factors of pi	roduction used to produce	goods and services?	92)
II. Labor				
III. CapitalIV. Entrepreneurship				
A) I and III only	B) I and II only	C) I, II and III only	D) I, II, III and IV	
Answer: D				
93) Factors of production incl	ude all of the following <u>E</u>	EXCEPT		93)
A) labor.				
B) capital. C) land.				
D) None of the above a	nswers are correct becau	se all are factors of product	ion.	
Answer: D				
94) What are the four categor		oroduction are grouped?		94)
A) land, labor, capital, aB) profit, wages, rent, a				
C) entrepreneurship, p				
D) capital, human capit	al, land, and labor			
Answer: A				
95) Factors of production incl				95)
A) an wheat field that isC) machines made in p	•	B) moneyD) entrepreneurship		

96)	The income earned by the people who sell the service	s of the factor of production is called	l 96)
	A) entrepreneurship; wages C) land; profit	B) capital; rent D) entrepreneurship; profit	
	Answer: D		
97)	Factors of production are grouped into four categories A) land, capital, money, entrepreneurship C) land, labor, capital, money	s: B) labor, capital, money, entrepreneurship D) land, labor, capital, entrepreneurship	97)
	Answer: D		
98)	Which of the following is <u>NOT</u> a factor of production? A) wilderness areas that have yet to be developed B) 175 shares of Microsoft stock C) a person developing a production schedule for a		98)
	D) vans used by a bakery company for deliveries	·	
	Answer: B		
99)	Which of the following is correct? Factors of productionA) the inputs used to produce goods and services.B) the fundamental source of abundance.C) only land and labor.	on are	99)
	D) land, labor, the price system, and capital.		
	Answer: A		
100)	Factors of production include A) land, labor, capital and entrepreneurship. B) the economic system. C) labor and capital (not land, which is fixed). D) only capital, land, and labor.		100)
	Answer: A		
101)	Keeping in mind economists' definition of factors of p factor of production?	roduction, which of the following is <u>NOT</u> a	101)
	A) low-skilled labor C) an engineer	B) money D) coal	
	Answer: B		
102)	Which of the following is <u>NOT</u> a factor of productions: A) a university professor C) mineral resources	B) 100 shares of Microsoft stock D) an apartment building	102)
	Answer: B		
103)	Which factor of production earns profit? A) human capital C) entrepreneurship	B) money D) land	103)
	Answer: C		

104) Which factor of production earns most income in th		104)
A) entrepreneurshipC) capital	B) labor D) money	
Answer: B	D) money	
105) Which of the following best defines capital as a fact	or of production?	105)
A) Financial assets used by businesses.B) The gifts of nature that businesses use to prod	lice goods and services	
C) Instruments, machines, and buildings used in		
 D) The knowledge and skills that people obtain f and services. 	rom education and use in production of goods	
Answer: C		
106) Which of the following is <u>NOT</u> a factor of production		106)
A) a new computer used by a small business owrB) a tractor used by a wheat farmer.	ner.	
C) a share of stock issued by a firm.		
D) the time worked by elementary school teacher	rs.	
Answer: C		
107) In economics, the term "land" means		107)
A) land, mineral resources, and nature's other bo	unties.	
B) land that is devoted to economic pursuits.		
C) only land that is used in agricultural productionD) land used for agricultural and urban purposes		
Answer: A	-	
108) A natural resource, such as fishing territories, is cor	·	108)
A) land only.C) both land and labor.	B) land, labor, capital and entrepreneurship.D) only capital.	
Answer: A	, ,	
109) The "gifts of nature" are included as part of which for A) labor	actor of production? B) capital	109)
C) land	D) entrepreneurship	
Answer: C		
110) Copper falls into which factor of production categor	ry?	110)
A) land	B) labor	, <u></u>
C) entrepreneurship	D) capital	
Answer: A		
111) An autoworker is an example of and earn	S	111)
A) entrepreneurship; wages.	B) capital; rent.	
C) labor; wages.	D) labor; rent.	
Answer: C		

112) Overtime worked by a JCPenney associate is considA) entrepreneurship; profit.	B) human capital; interest.	112)
C) labor; wages.	D) labor; profit.	
Answer: C		
113) The term human capital refers toA) buildings and machinery.		113)
B) entrepreneurship and risk-taking. C) labor resources used to make capital equipmen	at .	
D) people's knowledge and skill.	н.	
Answer: D		
114) In the United States, the quality of labor has been inA) the percentage of the adult population that has decreasing.	s had 4 years or more of college has been	114)
B) the percentage of the adult population that hasC) the percentage of the adult population that hasD) a larger percentage of the adult population has college.	s completed high school has been decreasing.	
Answer: D		
115) Joy is training to become a chef. The skills she is obt increase what type of resource?	aining from her training and education will	115)
A) land	B) human capital	
C) physical capital	D) entrepreneurship	
Answer: B		
116) Which of the following is <u>NOT</u> an investment in hu	man capital?	116)
A) a student purchases a laptop computer B) a computer science student learns how to repa C) a computer science student takes a course on p D) a business student takes a seminar in using a least science.	programming a laptop computer	
D) a business student takes a seminar in using a lAnswer: A	aptop computer	
117) Which of the following is NOT an investment in hu	man agnital?	117\
117) Which of the following is <u>NOT</u> an investment in huA) Johnny learns how to read	·	117)
B) a mechanic attends a training workshop on a rC) a student's purchase of a personal computer	new type of engine	
D) a medical student's internship		
Answer: C		
118) A person goes to college to become an engineer. Thi		118)
A) increase in entrepreneurship.C) investment in human capital.	B) investment in physical capital.D) increase in labor.	
Answer: C		
119) Pete has just decided to go to college to learn how to	become a certified public accountant. Pete has	119)
made a decision that will increase the nation's	•	
A) labor supply today.C) physical capital.	B) human capital.D) ALL of the above answers are correct.	
Answer: B		

120) In economics, the term "o	capital" refers to			120)
A) mineral resources.		B) buildings and		-
C) consumer goods.		D) the money in o	ne's pocket.	
Answer: B				
121) Jon works in an automob The machine Jon operate			ne fenders for automobiles.	121)
A) capital	3 is what type of resour	B) labor		
C) land		D) entrepreneursh	qir	
Answer: A		, ,	•	
122) Which of the following is	s a type of capital?			122)
A) low-skilled labor	or type or capital.	B) machine		
C) acre of land		D) mineral resour	ce	
Answer: B		,		
123) Human resources that pe	erform the functions of	organizing, managing, a	nd assembling the other	123)
resources are called		5 0 0	Ŭ	, <u> </u>
A) physical capital.		B) productive cap	oital.	
C) entrepreneurship.		D) venture capital	l.	
Answer: C				
124) The economic resource tl	hat organizes the use of	f other economic resource	es is	124)
A) capital.		B) labor.		
C) entrepreneurship.		D) land.		
Answer: C				
125) Entrepreneurs directly d	o all of the following <u>E</u>	XCEPT_		125)
-	from making business			'
	oout what and how to p	produce.		
C) make business deci				
=	oods and services are p	roduced.		
Answer: D				
126) Carl, who is an attorney,				126)
hour. This income differen	ence is most directly an	example of an economy	answering the	
question.	D) '	0)	D)	
A) "for whom"	B) "scarcity"	C) "how"	D) "when"	
Answer: A				
127) Differences in income are	=	_	big economic question?	127)
	are various goods and s	services produced?		
B) What goods and se		t are produced?		
D) How are goods and	goods and services tha	it are produced?		
Answer: C	a soi vidos produced!			
ALISANCI. C				

128	The fact that some people			rs are homeless, is most	128)
	directly an example of ar				
	A) "how"	B) "for whom"	C) "when"	D) "why"	
	Answer: B				
129)	The fact that a rock star e			00 annually is most	129)
	directly an example of ar A) "for whom"	economy answering the B) "when"	e question. C) "why"	D) "how"	
	Answer: A	<i>5,</i> w	<i>5,y</i>	D, new	
130)	Sue, who has a law degre hour. This situation most	•	_	-	130)
	question.				
	A) "how"	B) "why"	C) "when"	D) "for whom"	
	Answer: D				
131)	A star athlete can afford bus for transportation. The				131)
	question. A) "why"	B) "when"	C) "for whom"	D) "what"	
	Answer: C	b) When	C) for whom	D) What	
100	One economist says that			. \^/	132)
	economist mean? A) Higher taxes on gas B) Higher taxes on gas C) Raising taxes on gas	s would benefit everyone s would benefit society a s would benefit most of s would benefit some so	e. s a whole. the people.		
	Allswei. D				
133)		e social interest. with the social interest. t with the social interest.			133)
134)	B) How are goods andC) Why do incentivesD) What goods and se	ls and services produced I services produced? affect only marginal cost	?		134)
	Answer: C				
135)	The question, "Should Ta A) "how" question. C) "for whom" question	•	cos or more burritos?" is B) "where" question D) "what" question	n.	135)
	Answer: D				

136) The concept of tradeoffs concerns all of the following questions <u>EXCEPT</u> :					
A) Why should goods and services be produced?B) How should goods and services be produced?					
C) For whom should goods and services be produced?					
· · · · · · · · · · · · · · · · · · ·	D) What goods and services should be produced?				
Answer: A					
137) In economics we learn that		137)			
A) sometimes there is such a thing as a					
	ble alternatives given up when we make a choice.				
C) tradeoffs allow us to avoid the problem of opportunity cost.D) None of the above answers is correct.					
Answer: D					
it faces the	ootball stadium instead of adding to the baseball stadium,	138)			
A) macroeconomic question.	B) "for whom" tradeoff.				
C) "what" tradeoff.	D) "how" tradeoff.				
Answer: C					
139) Congress votes for more national defense involves	but cuts back on educational programs. This choice	139)			
A) no tradeoff.	B) a "how" tradeoff.				
C) a "for whom" tradeoff.	D) a "what" tradeoff.				
Answer: D					
·	ount of acreage devoted to wheat and grow fewer acres	140)			
of soybeans, the farmer is facing the A) "for whom" tradeoff.	D) microsconomic question				
C) "how" tradeoff.	B) microeconomic question.D) "what" tradeoff.				
Answer: D	z, what hadeem				
1/1) When a photographer decides to use a dia	sital compare to take chote versus using film, the	1 / 1 \			
141) When a photographer decides to use a dig photographer is facing the	ital carriera to take shots versus using mim, the	141)			
A) microeconomic question.	B) "what" tradeoff.				
C) "for whom" tradeoff.	D) "how" tradeoff.				
Answer: D					
142) The "how" tradeoff occurs when		142)			
A) the government increases income tax	kes paid by the rich.	, <u> </u>			
B) a firm decides to produce refrigerate					
C) we answer the macroeconomic ques					
-	es instead of employing migrant workers.				
Answer: D					
	tax relief for small businesses while placing higher taxes	143)			
on large corporations, it is facing the	D)				
A) macroeconomic question.C) "for whom" tradeoff.	B) "how" tradeoff.D) "what" tradeoff.				
C) "for whom" tradeoff. D) "what" tradeoff.					

144) Because we face scarcity, every choice involve		144)
A) money	B) giving up something for nothing.	
C) the question "what."	D) an opportunity cost	
Answer: D		
145) The term used to emphasize that making cho	ices in the face of scarcity involves a cost is	145)
A) opportunity cost.	B) substitution cost.	, <u> </u>
C) accounting cost.	D) utility cost.	
Answer: A		
146) The loss of the highest-valued alternative def	ines the concept of	146)
A) marginal benefit.	B) opportunity cost.	
C) entrepreneurship.	D) scarcity.	
Answer: B		
147) When an action is chosen, the highest-valued	alternative NOT chosen is called the	147)
A) implicit cost.	B) opportunity cost.	
C) explicit cost.	D) accounting cost.	
Answer: B	, g	
148) Opportunity cost means the		148)
 A) accounting cost minus the marginal ben 	efit.	
B) highest-valued alternative forgone.		
C) accounting cost minus the marginal costD) monetary costs of an activity.	i.	
Answer: B		
Allswei. B		
149) The opportunity cost of any action is		149)
A) the monetary cost but not the time requi	red.	·
B) the highest-valued alternative forgone.		
C) all the possible alternatives forgone.		
D) the time required but not the monetary	cost.	
Answer: B		
150) The opportunity cost of something you decide	e to get is	150)
A) the lowest valued alternative you give u	•	
B) the highest valued alternative you give		
C) all the possible alternatives that you giv	e up to get it.	
D) the amount of money you pay to get it.		
Answer: B		
151) Opportunity cost is best defined as		151)
A) how much money is paid for something	, taking inflation into account.	
B) how much money is paid for something	•	
C) all the alternatives that are given up to g	get something.	
D) the highest-valued alternative that is gi	ven up to get something.	

Answer: D

152) Which of the following statements are correct?	?		152)	
I. The "highest-valued alternative given up to get something" is the opportunity cost.				
II. Wealthy economies don't experience opportunity costs.				
III. Scarcity creates opportunity costs.				
A) I and III B) I and II	C) I, II, and III	D) I only		
Answer: A				
153) Opportunity cost is best defined as			153)	
A) the value of the next best alternative that	t is given up in making a ch	oice.		
B) the total of all other alternatives that are	given up in making a choice	e.		
C) how much money and time it takes to co				
D) how much money is paid for something.				
Answer: A				
154) Which of the following best describe(s) opport	tunity costs?		154)	
I. An opportunity cost is the next best altern		when he or she makes a	· —	
to do something else.				
II. Opportunity costs are always measured in				
III. Opportunity costs are higher for U.Smad	•			
A) I only B) I and III	C) I and II	D) II and III		
Answer: A				
155) Opportunity cost is defined as			155)	
A) all the possible alternatives given up.				
B) the highest-valued alternative given up.				
C) the amount of money spent to take part i	in the activity chosen.			
D) the top two alternatives given up.				
Answer: B				
156) Opportunity cost is defined as the			156)	
A) lowest-valued alternative given up.				
B) highest-valued alternative given up.				
C) total value of all the alternatives given up	p.			
D) cost of not doing all of the things you wo	ould like to do.			
Answer: B				
157) The ultimeter each of any chains in			1 [7]	
157) The ultimate cost of any choice is A) what someone else would be willing to p	227		157)	
B) the dollars expended.	Jay.			
C) the highest-valued alternative forgone.				
D) the after-tax cost.				
Answer: C				
150) Opportunity cost is massured in terms of			150)	
158) Opportunity cost is measured in terms of A) both monetary value and time.	B) only monetary v	/alue	158)	
C) only time.	D) either monetary			
Answer: A	,			

 159) You have the choice of going on vacation to Florida for one week, staying at work for the week, or spending the week doing fix-up projects around your house. If you decide to go to Florida, the opportunity cost of the trip is A) working, because you would be giving up dollars. B) working or doing fix-up projects, depending on which you would have done otherwise. C) working and doing fix-up projects. D) nothing because you will enjoy the trip to Florida. Answer: B 	159)
 160) The night before a midterm exam, you decide to go to the movies instead of studying for the exam. You score 60 percent on your exam. If you had studied the night before, you'd have scored 70 percent. What was the opportunity cost of your evening at the movies? A) 70 percent B) 60 percent. C) 10 percent off your grade. D) Zero. Answer: C 	160)
 161) On Saturday morning, you rank your choices for activities in the following order: go to the library, work out at the gym, have breakfast with friends, and sleep late. Suppose you decide to go to the library. Your opportunity cost is A) zero because you do not have to pay money to use the library. B) not clear because not enough information is given. C) working out at the gym, having breakfast with friends, and sleeping late. D) working out at the gym. Answer: D 	161)
 162) Fred and Ann are both given free tickets to see a movie. Both decide to see the same movie. We know that A) it is not possible to calculate the opportunity cost of seeing the movie because the tickets were free. B) both bear an opportunity cost of seeing the movie because they could have done other things instead of seeing the movie. C) it is possible to calculate the opportunity cost of seeing the movie and it is zero because the tickets were free. D) both bear the same opportunity cost of seeing the movie because they are doing the same thing. Answer: B 	162)
 163) You have the choice of going to Hawaii for a week, staying at work for the week, or spending the week skiing. If you decide to go to Hawaii, the opportunity cost is A) working, because you would be giving up a week's pay. B) the value of working or skiing, depending on which you would have done rather than go to Hawaii. C) the value of working and skiing. D) None of the above if you enjoy the time spent in Hawaii. Answer: B 	163)

164) The opportunity cost of attending college includes	s the cost of	164)
A) tuition, books, and the lost wages for the hou		
B) the tuition but not the job at which you wouC) the highest valued alternative to attending or		
D) the highest valued alternative to attending of	9 .	
Answer: C	3	
1/5) Taday hulia attandad han 10 20 Farmanian dasa l		1/5)
165) Today, Julie attended her 12:30 Economics class. I out to lunch with friends. She had other options; s	· · · · · · · · · · · · · · · · · · ·	165)
opportunity cost of going to class is the	sile could have worked or slept in. June s	
A) income, pleasure, and sleep she gave up.	B) income she gave up.	
C) lunch she gave up.	D) sleep she gave up.	
Answer: C		
166) Joe likes to sleep late in the mornings and play ter	nnis in the afternoons. The opportunity cost of Joe	166)
attending his morning class for one hour is		
A) nothing because he is paying for his class.		
B) an hour of sleep given up.C) both the tennis given up and the sleep giver	n lin	
D) an hour of tennis given up.	, ap.	
Answer: B		
167) By choosing to come to class, you know you are g	iving up the ability to watch television. In doing	167)
so, you are applying the concept of	iving up the upinty to water television. In doing	
A) the post hoc fallacy.	B) opportunity cost.	
C) involuntary exchange.	D) the fallacy of composition.	
Answer: B		
168) John has two hours of free time this evening. He r	ranked his alternatives, first go to a concert,	168)
second go to a movie, third study for an economic		
the opportunity cost of attending the concert for Jo		
A) attending a movie, studying for an economicB) answering his e-mail	cs exam, and answering his e-mail	
C) attending a movie		
D) studying for an economics exam		
Answer: C		
169) You decide to take a vacation and the trip costs yo	ou \$2,000. While you are on vacation, you do not	169)
report to work where you could have earned \$750		
A) \$750. B) \$2,750.	C) \$2,000. D) \$1,250	
Answer: B		
170) The term "opportunity cost" points out that		170)
A) executives do not always recognize opportu		
 B) not all individuals will make the most of life their goals. 	e's opportunities because some will fail to achieve	
C) there may be such a thing as a free lunch.		
D) any decision regarding the use of a resource	involves a costly choice.	

Answer: D

 171) During the next hour John can play basketball, watch television, or read a book. The opportunity cost of reading a book A) equals how much John enjoys the book. B) is how much the book cost when it was purchased. 	171)
C) is the value of playing basketball if John prefers that to watching television.D) is the value of playing basketball and the value of watching television.	
Answer: C	
 172) Misty has the option of purchasing one of three products: Brand A, Brand B, or Brand C. Each costs ten dollars. If she decides that Brand A meets her needs best, then the opportunity cost of this decision is A) twenty dollars. B) Brand B or Brand C, depending on which is considered the highest-value alternative forgone. 	172)
C) Brand A. D) Brand B plus Brand C.	
Answer: B	
	470)
 173) Which of the following is NOT an example of an opportunity cost? A) Because Mary is now being paid a higher wage, she can afford to buy a new car even though she is moving into a bigger apartment. B) Because David used all of his vacation time to paint his house, he was unable to visit the 	173)
 Caribbean last year. C) By choosing to attend college, Jean was not able to continue working as an electrician; as a result, she gave up more than \$85,000 in earnings while she was in college. D) By spending Thursday night studying for an economics exam, a student was unable to complete a homework assignment for calculus class. 	
Answer: A	
174) From 8 to 11 p.m., Sam can either attend a basketball game, a hockey match or the symphony. Suppose that Sam decides to attend the hockey match and thinks to herself that if she did not go to the match she would go to the symphony. Then the opportunity cost of attending the hockey match is	174)
A) going to the symphony.B) going to the symphony and the basketball game.C) three hours of time.D) going to the basketball game.	
Answer: A	
175) When the government chooses to use resources to build a dam, these sources are no longer available to build a highway. This choice illustrates the concept of A) a fallacy of composition. B) opportunity cost. C) a market mechanism. D) macroeconomics.	175)

176) Suppose you plan to ta	ke summer courses. The	e cost of fultion and textbo	ooks is \$1,200, nousing will	176)
	=	f you decide not to take co		
you'll live in your parents' house for free and spend only \$100 on food. Also, if you don't take courses in the summer, you'll work full time and could earn at least \$5,000. You can still work part				
	_		•	
<u> </u>		n earn is \$1,000. What is y	our opportunity cost of	
taking courses in the su		C) \$4,000	D) ¢E 000	
A) \$6,900	B) \$1,900	C) \$4,000	D) \$5,800	
Answer: D				
177) After you graduate, yo	u have decided to accep	t a position working at th	e Bureau of Labor Statistics	177)
for \$45,000.00 a year. T	he two other offers you	received were working for	or Wal-Mart for \$38,000	, <u> </u>
and working for Ernst	and Young consulting f	or \$42,000. Of these two of	ffers, you would have	
preferred the job at Ern	st and Young. What is t	he opportunity cost of acc	cepting the position at the	
Bureau of Labor Statist	ics?			
A) the \$45,000 you a	re paid for working at t	he Bureau of Labor Statist	ics	
•	•	orking for Ernst and Your	ng and the \$38,000 you	
	paid working for Wal-			
,	ould have been paid w	· ·		
·	ould have been paid w	orking for Ernst and Your	ng	
Answer: D				
178) Bill Bonecrusher gradu	ates from college with a	choice of playing profess	sional football at \$2 million	178)
		es to play football, but eig		, <u> </u>
could continue to play	football at \$2 million a	year, he quits football to m	nake movies for \$3 million	
a year. His opportunity	cost of playing footbal	l at graduation was	and eight years later	
the opportunity cost of	<u> </u>			
A) \$2 million; \$3 mil		B) \$50,000; \$2 mi		
C) \$2 million; \$2 mil	lion	D) \$50,000; \$50,00	00	
Answer: B				
179) During the summer yo	u have made the decision	on to attend summer school	ol, which prevents you	179)
from working at your t	ısual summer job in wh	ich you normally earn \$6,	000 for the summer. Your	
	d books and supplies co	ost \$1,300. The opportunit	y cost of attending summer	
school is				
A) \$10,300.	B) \$4,300.	C) \$3,300.	D) \$6,000.	
Answer: A				
180) Jill, an economics stude	ent, has already spent 5	hours cleaning her room.	In deciding whether or not	180)
		lies the economic principl	_	·
A) productivity.		B) scarcity.		
C) ceteris paribus.		D) choosing at the	e margin.	
Answer: D				
181) Marginal benefit is the	benefit			181)
A) of an activity that				
	ne secondary effects of a	n activity.		
	n increase in an activity			
	provides to someone el			

182) The benefit that arises from an increase in an a		182)
A) an incentive.C) the marginal benefit.	B) the marginal cost.D) opportunity cost.	
Answer: C	2) appointment of the	
183) A benefit from an increase in activity is called	5)	183)
A) a total benefit.C) an economic benefit.	B) an opportunity gain.D) a marginal benefit.	
Answer: D	b) a marginar benefit.	
Allswei. D		
184) The marginal benefit is the		184)
A) additional cost from one more unit of an	activity.	
B) forgone opportunity.C) loss of the highest-valued alternative.		
D) additional gain from one more unit of an	activity.	
Answer: D	-	
405) 71		405)
185) The additional benefit of increasing some activA) marginal benefit.	ity is called the B) marginal opportunity benefit.	185)
C) marginal opportunity cost.	D) scarcity benefit.	
Answer: A	, ,	
4001		100
186) In terms of dollars, the marginal benefit of worA) the wages received for 5 days of work.	king five days a week instead of four days a	a week is 186)
B) the wages received for 4 days of work.		
C) the wages received for the fifth day of wo	ork.	
D) None of the above answers is correct.		
Answer: C		
187) Your employer has asked you to start working	overtime and has offered to pay \$18 per ho	ur for 187)
every hour you work beyond forty hours a we	ek. The wage rate for each of the first forty h	nours will
continue to be the usual \$15 per hour. In terms	of dollars, what is the marginal benefit of w	vorking
each hour of overtime? A) \$3.00 B) \$18.00	C) \$15.00 D) zero	
Answer: B	C) \$13.00 D) Zei 0	
Allower. B		
188) A student is studying for an exam 2 hours a da	y and is debating whether to study an extra	hour. 188)
The student's marginal benefit	n the even	
A) depends on the grade the student earns ofB) is greater than the student's marginal cos		
C) is the benefit the student receives from st		
D) is the benefit the student receives from st	udying all 3 hours.	
Answer: C		
189) A student athlete is deciding whether to work	out for an extra hour. Her marginal benefit	from 189)
another hour of exercise	3 3 1 1111111	, <u> </u>
A) is the benefit she receives from exercising		
B) is less than the marginal cost of the additC) is the benefit she gets from all the hours s		
D) depends on the cost of the workout.	IIIC 3 WOLKER OUL BIL WEEK.	

 190) Suppose that you are spending two hours a day studying economics, and your grade is 85 percent. You want a higher grade and decide to study for an extra hour a day. As a result, your grade rises to 90 percent. Your marginal benefit is the A) higher grade that you get. B) extra hour per day you spend on studying. C) three hours per day you spend on studying. D) 5 point increase in your grade. 		190) _	
Answer: D			
 191) Marginal cost is the cost A) that arises from the secondary effects of an act B) that your activity imposes on someone else. C) that arises from an increase in an activity. D) of an activity that exceeds its benefit. Answer: C 	ivity.	191) _	
192) A cost due to an increase in activity is called		192)	
A) an incentive loss.C) a marginal cost.Answer: C	B) the total cost.D) a negative marginal benefit.	_	
193) The cost of an increase in an activity is called		193)	
A) an incentive.	B) the marginal cost.	<i>'</i> –	
C) opportunity cost. Answer: B	D) the marginal benefit.		
194) Marginal cost is the		194)	
 A) cost of a small increase in an activity. B) cost of all forgone alternatives. C) cost of an activity minus the benefits of the act 	ivity.		
D) total cost of an activity.	,		
Answer: A			
195) Laura is a manager for HP. When Laura must decid	e whether to produce a few additional printers,	195) _	
 she is choosing at the margin when she compares A) the extra revenue from selling a few additional additional printers. B) HP's printers to printers from competing compared to the printers of the			
C) the total revenue from sales of printers to the tD) the extra revenue from selling a few additiona printers.	otal cost of producing all the printers.		
Answer: D			

196)	S .	•	rease their production of Insp		196)	
	-		ompany's revenue will increa	-		
		by \$9 million a n	nonth, and its total monthly p	profit will be \$30 million.		
	Dell's managers	roducina 4 000 m	ore lentone because it will on	et the company too much		
	B) should approve produ	icing 4,000 more	ore laptops because it will co laptops because the marginal			
	exceeds the marginal (laptops because this will resu	ult in a cubstantial total		
	profit.	· ·				
	D) cannot make a rationa the increase in produc		they know what the company	y's total profit is before		
	Answer: B					
197)	•		additional employee to its si	ummer crew. The	197)	
	marginal cost of hiring this	•	on the			
	A) total amount paid to theB) the additional revenue		ag an additional worker			
	C) total amount paid to a	•	<u> </u>			
			s, both the new one and the p	reviously hired workers		
	Answer: A	to an the workers	p, sour the new one and the p	roviously impu workers.		
	Aliswel. A					
198)		s is \$1.50. The cos	st of 6 pencils is \$1.75. The ma	arginal cost of the sixth	198)	
	pencil is					
	A) \$1.75.	B) \$.25.	C) \$1.50.	D) \$3.25.		
	Answer: B					
199)	If the marginal cost of an ac	tivity exceeds the	marginal benefit, then		199)	
.,,	A) the person must conce	_	_		.,,	
	B) the forgone alternative		-			
	C) an alternative action w	vill be selected.				
	D) the activity will occur	because of the hig	h marginal cost.			
	Answer: C					
000	-				000)	
200)	To decide whether to go to t A) not make the <i>post hoc</i> f	-	ng break, you snould		200)	
	B) not make the fallacy of	•				
	C) compare marginal cos	•	benefit of taking the trip			
	D) unscramble cause and		content of taking the trip.			
	Answer: C					
201)	A store remains open from 8	3 a.m. to 4 p.m. ea	ach weekday. The store owne	r is deciding whether to	201)	
,	stay open an extra hour eacl	•		3	,	
		_	ner's marginal cost if the owr	ner decides to stay open.		
	-		taying open from 8 a.m. to 5 p			
	-		taying open from 8 a.m. to 6 p	om.		
	D) depends on the revenue	ues the owner ma	kes during the day.			

202) If the marginal cost of an ac	tivity falls or the marg	inal benefit rises, then you would	202)
A) not change your parti	cipation.	B) undertake more of the activity.	
C) undertake less of the	activity.	D) cease participation in the activity.	
Answer: B			
203) Which of the following crea	ates an incentive to incr	rease the amount of an activity?	203)
A) an increase in the mar activity	ginal cost of the activit	ty and a decrease in the marginal benefit of the	
B) constant marginal cosC) a decrease in the margactivity	_	al benefit of the activity y and an increase in the marginal benefit of the	
D) None of the above cre	ate an incentive to incr	rease the amount of an activity.	
Answer: C			
stay in New York instead o	f moving to another sta of the firm remair I cost exceed the margi I cost exceed the margi I benefit exceed the ma	nal benefit inal benefit arginal cost	204)
complete that will raise his	exam score by 20 perce 10 hours of his time. Je more than the 10 hours		205)
D) 20 percentage points i	more than the 10 hours	s of his time.	
Answer: D			
-	•	ner than meat loaf best reflects tradeoff.	206)
A) a how Answer: D	B) an incentive	C) a for whom D) a what	
207) From 8 PM to 10 PM. Sus	an can attend a movie	study, or talk with friends. Suppose that Susan	207)
	out thinks that, if she had stone of attending the move	adn't, she would otherwise have talked with	201)
Answer: D			
		e army, these people are no longer available to do	208)
other work. This choice illu A) marginal benefit. C) a social interest/priva	·	B) opportunity cost. D) an incentive.	

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209) When the government chooses to spend the tax do	ollars that it collects on homeland security, its	209)	
choice			
 A) illustrates that scarcity does not always exist 			
B) primarily affects who gets the goods and ser	·		
C) involves a tradeoff of other goods and service	es such as education for more homeland security		
D) involves no tradeoff because the defense is n	ecessary		
Answer: C			
210) Making a choice at the margin means		210)	
A) letting someone else choose for you			
B) making a choice by comparing the total bene	efit and the total cost		
C) deciding to do a little bit more or a little bit le	ess of an activity		
D) waiting until the last minute to make a choic	e		
Answer: C			
211) Suppose that for the past two months, you have st	udied economics one hour a day. You now	211)	
decide to study economics two hours a day. For th	ie past two months,		
A) the opportunity cost of studying economics i	must have risen.		
B) your marginal benefit from studying econon	nics an hour must have been greater than its		
marginal cost			
C) your marginal cost of studying economics fo benefit	r an hour must have exceeded its marginal		
D) the marginal cost of studying economics mu	st have fallen		
Answer: B			
212) In economics, positive statements are about		212)	
A) the way things ought to be.	B) macroeconomics, not microeconomics.		
C) microeconomics, not macroeconomics.	D) the way things are.		
Answer: D	2) and may annigo and		
Allswei. D			
213) A positive statement is		213)	
A) about what is.			
B) valid only in the context of a model with sim	pple assumptions.		
C) the result of a model's normative assumption			
D) about what ought to be.			
Answer: A			
A TISWOT. A			
214) A positive statement is		214)	
A) about what ought to be.	B) always true.	′ 	
C) about what is.	D) one that does not use marginal concepts.		
Answer: C	,		
7.11.511.51.			
215) A positive statement		215)	
A) is a statement of what is.			
B) is an affirming statement that is strongly wo			
C) cannot be tested by checking it against the fa	icts.		
D) is a statement of what ought to be.			

216) Which of the following are		tive" statements?		216)
I. They describe what "ouII. They describe what is to	•	ho world appears		
III. They can be tested as to		rie worid appears.		
A) I, II and III.	B) I and III.	C) I and II.	D) II and III.	
Answer: D				
017\				047)
217) Positive and normative stat		: s normative statements ca	nnot	217)
		eas positive statements ca		
C) normative statements	never use the word	"should."		
D) normative statements	depict "what is" and	l positive statements depi	ct "what ought to be."	
Answer: A				
218) A positive statement is a sta	atement about			218)
A) what should be but is		B) what is and wh	nat should be.	
C) what is.		D) what is desirab	le.	
Answer: C				
219) Positive economic statemer	nts			219)
A) can be tested against t		B) prescribe what	should be.	
C) cannot be tested agair			to microeconomics.	
Answer: A				
220) Which of the following is a	nositive statement?			220)
A) An unemployment ra	-	ational disgrace.		
B) Unemployment is a m	nore important probl	em than inflation.		
C) Unemployment and in		•		
youth is often close to		9 percent, the unemploym	nent rate for inner-city	
Answer: D	To percent.			
Allower. D				
221) Which of the following is a	· = '			221)
A) A 5 percent increase in juice.	n income leads to a 3	B percent increase in the co	onsumption of orange	
•	uld fight inflation ev	ven if it raises unemploym	nent.	
		t important economic issi		
D) Because they decrease	productivity, labor	unions should be elimina	ited.	
Answer: A				
222) Which of the following is a	positive statement?			222)
A) The government ough		care to everyone.		, <u> </u>
B) Corporations should I		onsible.		
C) The distribution of incD) People buy more of a		n its price falls		
Answer: D	good of service wile	н нэ рисстанэ.		
,				

223) Which of the following is <u>NOT</u> a normative statement?		223)
A) People buy more of a good or service when its pr		
B) The government ought to provide health care to 6	everyone.	
C) The distribution of income is fair.D) Corporations should be more socially responsible		
	ž.	
Answer: A		
224) A normative statement concerns		224)
A) a value judgment.	B) what is correct.	·
C) what is provable.	D) what is incorrect.	
Answer: A		
		225)
225) Normative economic statements		225)
A) describe the process of economic policy-making.B) describe what ought to be.		
C) deal with economic hypotheses that are not well-	established laws	
D) describe what is rather than what ought to be.	Cstabilistica laws.	
Answer: B		
, mower B		
226) The statement that "peach ice cream is better than choc	colate ice cream"	226)
A) can be tested using the scientific approach.		
B) is a normative statement.		
C) provides a basis for predicting which type of ice	cream will exhibit the most sales.	
D) is a positive statement.		
Answer: B		
227) The statement "Unemployment should be kept at or be	slow a level of 6 percent" is	227)
	B) a normative statement.	
·	D) a prediction.	
Answer: B	•	
228) Which of the following is an example of a positive state	ement?	228)
A) Government should not redistribute income.	11	
B) The foreign sector should be more tightly control		
C) Business firms ought to contribute more to charitD) Households are the primary source of saving.	ies.	
Answer: D		
229) Which of the following is an example of a positive state	ement?	229)
A) We should cut back on our use of carbon-based f		,
B) Every American should have equal access to heal	th care.	
C) The Federal Reserve ought to cut the interest rate		
 D) Increasing the minimum wage results in more un 	nemployment.	
Answer: D		
220\ \A/bish of the fallowing is a positive statement?		220)
230) Which of the following is a positive statement?A) A 10 percent increase in income leads to a 4 percent	ant increase in the consumption of hoof	230)
B) My economics class should last for two terms bed	-	
C) Given their negative impact on productivity, the		
D) Taxes should be lower because then people get to	=	

231) Which of the following is a positive statement?		231)	
 A) Our planet is warming because of an increased B) A minimum wage of \$5.50 per hour is a shame C) Both these statements are positive. D) Neither of these statements is positive. 		•	
Answer: A			
232) When AI makes the statement, "The cost of living ha	as increased 10 percent over the past 10 years,"	232)	
A) testing an economic model.C) making a normative statement.	B) making a positive statement.D) facing the standard of living tradeoff.		
Answer: B			
 233) Which of the following is a positive statement? A) State lotteries are good methods to use for rais B) An increase in gas prices leads people to carpo C) Increased prison sentences are the best way to 	pool more. Preduce the crime rate.	233)	
D) Inflation is a more serious problem than is defAnswer: B	Tation.		
234) The statement "Managers with a college education e	earn \$18 an hour while ski instructors who did	234)	
not complete college earn \$10" is A) an ethical statement. C) a normative statement.	B) a positive statement.D) a political statement.		
Answer: B			
235) The statement "An increase in the price of gasoline vis	will lead to a decrease in the amount purchased"	235)	
A) a political statement.C) a scientific statement.	B) a positive statement.D) a normative statement.		
Answer: B	•		
236) Which of the following is a positive statement?A) The best level of taxation is zero percent because	use then people get to keep everything they	236)	
earn. B) The government must lower the price of a pizz C) My economics class should last for two terms D) An increase in tuition means fewer students w	because it is my favorite class.		
Answer: D			
 237) Which of the following is a positive statement? A) Low rents are good because they make apartm B) Low rents decrease the amount of housing lan C) Owners of apartment buildings ought to be free D) Housing costs too much. 	ndlords make available for rent.	237)	
Answer: B			
238) The statement "The unemployment rate for teens isA) a political statement.C) an ethical statement.	higher than that for adults" is B) a normative statement. D) a positive statement.	238)	

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Answer: D

239) The statement "Prices rise more in countries with rapA) an ethical statement.	oid growth in the money supply" is B) a political statement.	239)
C) a positive statement.	D) a normative statement.	
Answer: C		
240) Statements about what ought to be are called		240)
A) assumptions.	B) implications.	
C) normative statements.	D) positive statements.	
Answer: C		
241) Normative statements are statements about		241)
A) what is.	B) what ought to be.	
C) prices.	D) quantities.	
Answer: B		
242) A normative statement is		242)
A) one that does not use marginal concepts.	B) about what is.	, <u></u>
C) always true.	D) about what ought to be.	
Answer: D		
243) In economics, normative statements are about		243)
A) the way things are.	B) the way things ought to be.	, <u> </u>
C) marginal costs, not marginal benefits.	D) marginal benefits, not marginal costs.	
Answer: B		
244) Which of the following is a normative statement?		244)
A) You should eat less candy.		
B) The price of candy bars is \$1.25 each.		
C) Popcorn and candy are sold in movie theaters.		
D) Candy bars are more expensive than newspape	ers.	
Answer: A		
245) Which of the following is a normative statement?		245)
A) The unemployment rate rose last month.		
B) The unemployment rate is too high.		
C) Forty percent of the public believes that the une	employment rate is too high.	
D) all of the above		
Answer: B		
246) Which of the following is a normative statement?		246)
 A) The United States has a comparative advantage production of wheat. 	e compared to the European Union in the	
B) The main reason why the United States has a tr	ade deficit with China is because China's trade	
practices are unfair.		
C) Both these statements are normative.		
 D) Neither of these statements is normative. 		

247)	At least 7 out of every 10 economists agree with the f	following propositions. Which of these	247)	
	propositions is normative?			
	A) The redistribution of income is a legitimate role	<u> </u>		
	 B) Cash payments to welfare recipients make then cash value. 	n better on than do transfers-in-kind of equal		
	C) Tariffs and import restrictions make most peop	ale worse off		
	D) Rent controls cut the availability of housing.	Worse off.		
	Answer: A			
	, (15wo). , (
248)	"Government should act to reduce poverty levels."		248)	
	A) This statement is an example of the fallacy of co	omposition.	•	
	B) This statement is a normative statement.			
	C) This statement is a positive statement.	I		
	D) This statement is an example of the <i>post hoc</i> fall	acy.		
	Answer: B			
249)	When Susan makes the statement, "The government	should spend less money to take care of	249)	
	national parks," she is	onouna opoma roce menoj te take cake ci	,	
	A) making a positive statement.	B) facing the standard of living tradeoff.		
	C) making a normative statement.	D) testing an economic model.		
	Answer: C			
25.0)			250)	
250)	"All children should have health insurance" is a A) fallacy of composition	B) positive statement	250)	
	C) post hoc fallacy	D) normative statement		
	Answer: D	b) normative statement		
	Allswei. D			
251)	"The rich should pay higher income tax rates than th	e poor" is an example of a	251)	
	A) normative statement.	B) descriptive statement.		
	C) theoretical statement.	D) positive statement.		
	Answer: A			
25.2\	N/high of the fallousing is a magnetic setatom and		252)	
252)	Which of the following is a normative statement? A) Studying more hours leads to an increase in yo	ur CDA	252)	
	B) Taking extra vitamin C prevents catching a colo			
	C) States should require all motorcycle riders to w killed.			
	D) An increase in tax rates means people work fev	ver hours.		
	Answer: C			
0E 0\	Multiple of the following is a secretive state of the following in a secretive state of the		252)	
253)	Which of the following is a normative statement? A) Owners of apartment buildings are free to char	an whatever rent they want	253)	
	B) Low rents are good because they make apartme			
	C) Low rents will restrict the supply of housing.	onto more unor dubio.		
	D) Housing costs are rising.			

254) Which of the following is an example of a normative statement?		254)	
A) Households should save more.		-	
B) Household consumption is the largest component of spending.			
C) Government spending rose in the 1990s.			
D) The business sector is the primary source of jobs.			
Answer: A			
255) Which of the following is a normative statement?		255)	
A) The government's cuts in welfare spending impose an unfair hardship of	n the poor.		
B) Next year's inflation rate will be under 4 percent.			
C) The current butter surplus is the result of federal policies.			
 D) Consumers will buy more gasoline over the Christmas holiday even if the cents higher than it was during the Thanksgiving holiday. 	he price of gas is 10		
Answer: A			
256) Suppose that an economist tells you that people in the United States do not sa	ve enough out of their	256)	
incomes. This is an example of statement.		•	
A) a ceteris paribus B) an autonomous C) a normative	D) a positive		
Answer: C			
257) Economic models		257)	
A) simplify reality.			
B) include all relevant facts.			
C) are essentially different from those used in other sciences.			
D) always use graphs.			
Answer: A			
258) A good economic model		258)	
A) should not include more than two variables.		· -	
B) describes every aspect of the economic world, with no exception.			
C) includes all those features of the world that can be described numericall	y.		
D) includes only those features of the world that are needed for the purpos	e at hand.		
Answer: D			
259) An economic model is		259)	
A) a statement that describes how the world should be.		•	
B) a collection of facts that describe the real world.			
C) a description of some aspect of the economic world that includes only the	nose features of the		
world that are needed for the purpose at hand.			
 D) a generalization that summarizes all the normative assumptions we maissue. 	ke about a particular		
Answer: C			
260) A normative statement is		260)	
A) one that does not use the <i>ceteris paribus</i> clause.		´ -	
B) about what is.			
C) about what ought to be.			
D) always true.			

261) Which of the following is a positive statement?		261)
A) An increase in the price of pizza will lead fewer	students to buy pizza.	
B) The government should spend more on educati	on.	
C) The government must provide health insurance	so that the poor can obtain decent medical	
treatment.		
D) My favorite dinner is pizza and soda.		
Answer: A		
262) An economic model includes		262)
A) no use of marginal concepts.		
B) all known details in order to increase its accuracy	cy.	
C) only details considered essential.		
D) only normative statements.		
Answer: C		
263) The statement that is a positive statement.		263)
A) the price of sugar in the United States is higher	than the price in Australia	
B) too many people in the United States have no he	ealth care insurance	
C) more students should study economics		
D) the price of gasoline is too high		
Answer: A		
264) Ben Bernanke, Chairman of the Federal Reserve, mus	at choose whether to meet with the Secretary of	264)
the Treasury or Congress regarding the financial crisi		·
A) fact that Bernanke responds to incentives	B) fact that Bernanke faces scarcity.	
C) use of capital.	D) concept of entrepreneurship.	
Answer: B		
265) When the president of the Bank of America addresses	s Congress regarding lending standards in that	265)
industry, he is discussing	s congress regarding fending standards in that	
A) incentives.	B) a macroeconomic topic.	
C) a microeconomic topic.	D) the big tradeoff.	
Answer: C		
266) When Ben Bernanke, Chairman of the Federal Reserv	e, addresses Congress regarding the United	266)
States' role in the world economy, he is discussing	.,	
A) a microeconomic topic.	B) incentives.	
C) a macroeconomic topic.	D) scarcity.	
Answer: C	,	
267) Dell Computers decides to produce PCs and sell then This is an example of	n directly over the Internet and via BestBuy.	267)
A) incentives	B) a macroeconomic decision.	
C) a microeconomic decision	D) scarcity.	
	D) Scarcity.	
Answer: C		

268) In 2008, China chose to allow its peasant farmers to	have right to rent out their land. China hopes	268)	
that these farmers will			
A) act in the social interest.B) act in their self-interest.			
C) respond to incentives and increase agricultura	Il output.		
D) all of the above.			
Answer: D			
0(0) 0		0.(0)	
269) Consider the following events:i. Samsung hires associates to market their HI	DTV sets to RestRuy	269)	
ii. The Dallas Cowboys build a new football st			
iii. Ebay fires 10 percent of its workforce.			
iv. Ten million stocks were traded on the New	York Stock Exchange in one day.		
v. Pennsylvania builds a new state park.			
Which of the events describe use of factors of produ	ction.?		
A) ii, iv, and v. B) i and iii only.	C) iv only. D) i, ii, iii, and v.		
Answer: D			
270) Panasonic sends its HDTV salespeople to training se	essions. This is an example of	270)	
A) a macroeconomic decision.	ossiene i me te an onampie e.		
B) scarcity.			
C) entrepreneurship.			
D) a firm investing in workers' human capital			
Answer: D			
271) When BestBuy chooses to devote more sales space to	o HDTV sets than to computers, BestBuy	271)	
A) answers a macroeconomic question.	B) answers the for whom question		
C) answers the what question.	D) doesn't face a trade off.		
Answer: C			
272) When CBS decides to produce another season of a re	eality show instead of a new drama series, CBS	272)	
A) answers the how question.			
B) answers the <i>what</i> question.			
C) doesn't face a trade off because there is unlimiD) doesn't face scarcity because there are plenty			
Answer: B	or actors looking for work.		
Allswei. b			
273) When Delta Airlines encourages flyers to book their	trips online versus making phone reservations,	273)	
it is			
A) facing natural resource depletion.B) making a choice in the social interest only,.			
C) answering the <i>how</i> question.			
D) answering the <i>what</i> question.			
Answer: C			
274) When the Target Pharmacy offers automatic refills of	of prescriptions versus coming into the store	274)	
and ordering through the pharmacist, it is	or presemptions versus coming into the store	<u> </u>	
A) answering the for whom question.	B) answering the how question.		
C) making a choice in its self-interest only.	D) facing globalization.		

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Answer: B

275) When the New York Jets pay th	neir new player a signin	g bonus of \$10 million, t	he team is	275)
answering				
A) the what question.		B) the how and what que	estions.	
C) the <i>for whom</i> question.		D) the <i>how</i> question.		
Answer: C				
276) Barack Obama supports raising	income taxes paid by t	he highest-income Ame	ricans and John	276)
McCain supports maintaining		•		
the question.				
	for whom	C) microeconomic	D) what	
Answer: B		,	,	
Allswei. D				
277) When Target decides to hire an	other sales clerk to hand	dle the holiday rush, Tar	get assumes that the	277)
clerk's extra sales are greater th		_	_	,
A) the big tradeoff.		B) answering the how qu	-	
C) answering the what quest		D) making a decision at		
Answer: D		, 3	3	
Allower. D				
278) "When OPEC increases the sup	ply of oil to the market.	the price of gasoline fall	s." This is an	278)
example of	p.y,	p g		
A) a normative statement.		B) a positive statement.		
C) a macroeconomic stateme		D) the big tradeoff.		
Answer: B		_,g		
Allswel. b				
279) "As part of the financial crisis b	ailout plan in 2008, the	Federal Reserve will buy	v equity stakes in	279)
banks. This will result in an inc		-	_	
A) the big tradeoff.		B) a microeconomic stat		
C) a normative statement.		D) a positive statement.		
Answer: D		b) a positivo statornoriti		
Allswei. D				
280) "As part of the financial crisis b	ailout plan in 2008 the	Federal Reserve should	not hail out hanks	280)
that made risky loans." This is	•	r caciai reserve siloala	not ban out banks	
A) the big tradeoff.	•	B) opportunity costs.		
C) a normative statement.		D) a positive statement.		
		b) a positive statement.		
Answer: C				
281) "OPEC should supply more oil	so that the world's econ	nomies can grow more ra	nidly " This is an	281)
example of	30 that the world 3 ecol	iornies carr grow more ra	ipidiy. Tilis is ali	
A) the big tradeoff.		B) a positive statement.		
C) a decision at the margin.		D) a positive statement. D) a normative statemer	nt	
			16.	
Answer: D				

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

282) What do economists mean when they discuss "scarcity"?

Answer: Scarcity occurs whenever people's wants exceed the ability of the available resources to meet these wants. Because people's wants are effectively infinite—it is always possible to imagine more good things to want to have—wants will always exceed what can be produced with the available resources, and so scarcity will always be present.

283) What is the relationship between wants, factors of production, scarcity, and choices? Discuss the relationship for an individual and for a society.

Answer: A person faces scarcity whenever his or her wants exceed what he or she can obtain using his or her resources. Because the person cannot fulfill all of his or her wants, the person is forced to choose which wants will be satisfied and which wants will remain unsatisfied. The same results hold true for a society. All societies face scarcity because people's wants are essentially infinite, so that the factors of production available are not sufficient to fulfill everyone's wants. Because of this fact, societies must make choices about which (and whose) wants will be satisfied and which (and whose) wants will remain unsatisfied.

284) Why do economists say that even very rich people face scarcity?

Answer: A person faces scarcity whenever his or her wants exceed what he or she can obtain using his or her resources. Even very rich people want things that they cannot have. An older rich person, for instance, might want to have all of his or her youthful energy, but medical science cannot (yet) provide this service. Alternatively, another rich person might enjoy life so much that he or she wants 25 hours in a day in order to have more time for more enjoyment. But, such a want is impossible. By way of another, perhaps more realistic example, Malcolm Forbes was the founder of *Forbes* magazine and was very rich. However, he did not win every piece of art that he bid upon at auctions. Even though Mr. Forbes was very rich, he still passed on some art when the price got so high that he thought given his resources, the price exceeded what he was willing to pay. Mr. Forbes wanted the art, but he was not willing to bid higher in order to win it. Mr. Forbes faced scarcity.

285) Explain why both rich and poor people experience scarcity.

Answer: Scarcity exists when people's wants exceed their ability to satisfy the wants. People's wants are literally infinite, so just as a poor person can want more, so too can a richer person. Therefore both rich and poor experience scarcity.

286) What is the difference between scarcity and poverty?

Answer: Scarcity exists when availability is less than people want. Poverty exists when availability is less than people need. Everyone suffers scarcity; only an unfortunate minority suffers poverty.

287) Define economics and describe its branches of study.

Answer: Economics is the social science that studies the choices made by individuals, businesses, government, and entire societies as they cope with scarcity. It has two branches, microeconomics and macroeconomics. Microeconomics is the study of the choices made by individuals and businesses, the way they interact, and the influence that governments exert on these choices. Macroeconomics is the study of the aggregate (total) effects on the national economy and the global economy of the choices that individuals, businesses, and governments make.

288) What is the difference between microeconomics and macroeconomics?

Answer: Microeconomics studies the decisions of smaller economic actors, such as individual consumers or individual firms, and how the government can affect these decisions, say through how it regulates an industry. Macroeconomics studies the aggregate, or economy-wide, consequences of the decisions made by individuals and firms. Macroeconomics also studies the aggregate effects of government policies, such as the Federal Reserve's decisions to raise or lower interest rates.

289) What is the difference between microeconomics and macroeconomics? Give an example of an issue each studies.

Answer: Essentially microeconomics studies individual units within the economy, such as the choices made by individual consumers or individual firms. Macroeconomics studies the overall or aggregate economy. Microeconomics examines the factors that affect employment at an individual firm. Macroeconomics examines the factors that affect economy-wide unemployment.

290) Below is a student's answer to the question "What is microeconomics?" If you were the instructor, how would you correct the student's answer?

"Microeconomics is the study of how government influences the choices made by individuals and businesses and performance of the whole national economy."

Answer: The answer is partially correct. Microeconomics is the study of the choices that individuals and businesses make, the way these choices interact in markets, and the influence of the government. But the performance of the national economy is the subject of macroeconomics, not microeconomics.

291) China's population is about 1.5 billion, while the population of the United States is about 300 million. This fact means that China has much more human capital than the U.S. does. True or false? Explain your answer.

Answer: False. Population can measure the quantity of a nation's labor resource, but the population numbers don't tell us anything about skills that this labor force obtained from education, on-the-job training, and work experience, which are called human capital. Thus, the population numbers in the statement only tell us that China is likely to have more labor than the United States, but it does not necessarily mean that it also has more human capital.

292) Explain what entrepreneurship is and why it is considered a factor of production.

Answer: Entrepreneurship is the resource (the people) that runs businesses. Entrepreneurs organize the other resources, land, labor, and capital. It is a factor of production because people with the desire and talent to successfully organize a business are needed to run businesses.

293) An analyst on a local news channel argues that the recent corporate scandals "demonstrated very clearly that self interest always contradicts social interest." Do you agree or disagree? Substantiate your answer.

Answer: You should disagree. The recent corporate scandals only show that self interest *might* contradict social interest. But they don't prove that this is *necessarily* the case as we can find many real-world examples of how people guided by self-interest promote society's well-being. In fact, under the market system the whole economy operates through the decisions made by self-interested individuals. And countries such as the United States have proven to be more successful in promoting social interest than were centrally planned, or communist, economies where people's self interest was suppressed and all important economic decisions were made by government.

294) What is a tradeoff? Give an example.

Answer: A tradeoff occurs when one thing must be given up to get another. Tradeoffs are pervasive; at the personal level, students tradeoff time spent studying for time they otherwise could have spent socializing.

295) What is opportunity cost?

Answer: Opportunity cost is the highest-valued alternative given up when selecting an action. For instance, the opportunity cost of studying an hour is whatever the highest-valued alternative would have been for the hour spent studying.

296) What is an opportunity cost? Give an example of an opportunity cost that is paid in money and an opportunity cost that is not explicitly paid. For each example, explain why you think this is an opportunity cost.

Answer: The opportunity cost of something is the highest-valued alternative you give up to get it. An example of an opportunity cost paid in money is the cost of tuition that a student pays to get his or her college degree. This expenditure is an opportunity cost because to get a college degree, the student gives up goods and services that he or she would have bought for the money spent on tuition. If this student quits a job to go to college, the student also gives up the money he or she could have earned working (and hence the goods or services the student could have purchased). This opportunity cost is an example of an opportunity cost that is not explicitly paid in money.

297) Your friend is preparing for this exam and in your practice session makes the following statement: "Instead of attending microeconomics class for two hours, Kiki could have played tennis or watched a movie. Therefore, the opportunity cost of attending class is the tennis and the movie she had to give up." Is your friend's analysis correct or not? Explain your answer.

Answer: Your friend's analysis is incorrect. The opportunity cost of an action is the highest-valued alternative forgone, not *all* alternatives forgone. Kiki's opportunity cost of studying for her exam is either the tennis or the movie, whichever she would have done had she not studied.

298) Rather than go out to eat by yourself, you decide to stay at home and fix dinner for yourself and your two roommates. Your roommates applaud your decision. Your first roommate tells you that your decision to eat at home has no opportunity cost because you already have all the dinner ingredients in your pantry. Is this roommate's comment correct?

Answer: Your first roommate's comment is incorrect. The opportunity cost of preparing dinner at home is whatever is the highest-valued alternative forgone, which, given your choice boiled down to staying home or going out, is going out to eat. Hence the opportunity cost of fixing dinner at home is going out to eat.

299) A student can spend the next hour studying for a finance test, hiking along the Oregon coast, watching a rerun of *Buffy the Vampire Slayer* on television, or napping. If the student decides to study, what is the opportunity cost of her choice: hiking, watching television, or napping?

Answer: With the information given, it is impossible to determine the opportunity cost. The opportunity cost is the highest-valued alternative forgone and the problem does not give the student's ranking of the options. For instance, if the student thinks that if she had not studied she would have watched *Buffy*, then watching *Buffy* is the opportunity cost. However, if the student thinks that if she were not studying, she would be strolling along the beach, then the beach walk is the opportunity cost.

300) Define marginal cost and marginal benefit.

Answer: Marginal cost is the opportunity cost of an increase in an activity. Marginal benefit is the benefit of an increase in an activity.

301) What is the difference between a total benefit and a marginal benefit?

Answer: The total benefit is *all* the benefit from *all* of an activity. The marginal benefit is the *additional* benefit from an *additional* amount of an activity.

302) In New State, the bottling law requires that people get a refund of five cents when they return an empty bottle or can. Why does the state pay people to return bottles? In your answer, be sure to mention the role played by incentives.

Answer: Policy makers know that people making choices respond to incentives. Instead of throwing away bottles and cans, people will now bring the used bottles and cans to the designated areas for recycling in order to receive their payment. Thus policy makers have taken advantage of people's decision making by increasing the marginal benefit of returning bottles in order to reduce litter and clean the environment.

303) If the government raises the tax on cigarettes, what is the effect on people's incentives and choices?

Answer: The government raises the tax on cigarettes to discourage smoking. With a higher tax the price of cigarettes rises. The opportunity cost of smoking increases, which gives people incentive to cut their consumption of cigarettes.

304) What is the difference between positive and normative statements?

Answer: Positive statements tell what is and normative statements tell what ought to be. Positive statements can be tested to determine if they are correct or not, while normative statements use value judgments and so cannot be tested. For example, two economists might agree on the positive assertion that if the government spent its funds purchasing pharmaceutical drugs for poor older Americans rather than poor children, then poor older Americans would use more drugs and poor children would use fewer. But they might disagree on the normative conclusion of whether the government should pursue this policy. One economist might argue "It is not fair to have senior citizens suffer because they cannot afford medicine" and the other economist might argue "It is not fair to have children suffer because their parents cannot afford medicine."

305) "The difference between positive and normative statements is that a positive statement is always true while a normative statement might or might not be true." True or false? Explain.

Answer: False. The difference between positive and normative statements is that a positive statement is about what *is*, while a normative statement is about what *ought to be*. A positive statement can be tested against the facts and may be proved to be right or wrong, whereas a normative statement depends on values and cannot be tested.

306) Two economists can agree that raising the minimum wage creates unemployment yet one might argue that raising the minimum wage is a good policy and the other that it is a bad policy. Why can this difference exist? Be sure to use the terms positive and normative in your answer.

Answer: Positive statements are statements that describe how the world is. Positive statements can be tested and so, ultimately, any disagreements about positive statements should be resolved. The statement that "Raising the minimum wage creates unemployment" is a positive statement and, on the basis of repeated testing, most economists agree that it is a correct positive statement. Normative statements, however, are statements that describe how the world ought to be. Normative statements depend on people's values and cannot be tested. So one economist might argue that raising the minimum wage is a good policy because this economist thinks that, although it is unfortunate that some people lose their jobs, the fact that others retain their jobs and their wages rise more than outweighs the harm created by the unemployment. Another economist might strongly differ because the second economist thinks that the harm inflicted on people who lose their jobs more than outweighs any good from some workers being paid more. This difference of opinion can last indefinitely because there is no way to test the two economists' beliefs to determine which is correct.

307) What is a positive statement? Give an example.

Answer: A positive statement addresses "what is" and can be tested. An example of a positive statement is "An increase in the price of gas decreases the quantity of gas demanded."

308) Explain whether the statement, "There is life on Mars," is a normative or positive statement.

Answer: The statement is a positive statement because it does not depend on a value judgment. Instead, it is a statement that tries to describe "what is" and hence is testable. Of course, in order to test the assertion, it would be necessary to go to Mars to ascertain if there is life present. While it is difficult (!) at present to actually carry out the test, nonetheless the statement is testable and hence is a positive statement.

309) Explain whether the statement, "Hillary Clinton was elected President of the United States in 2008," is a normative or positive statement.

Answer: The statement is a positive statement because it does not depend on a value judgment. Instead, it is a statement that tries to describe "what is" and hence is testable. Now, it is indeed the case that Hillary Clinton was not elected president in 2008, so when we test the statement we discover that it is incorrect. But, whether the statement is correct or not has *no* bearing on whether the statement is positive or normative. Thus, the statement "Hillary Clinton was elected President in 2008" is a positive, albeit incorrect, statement.

310) What is a normative statement? Give an example.

Answer: A normative statement is a statement about what ought to be. It is a value judgment or opinion and so cannot be proven true or false. An example of a normative statement is "Students should attend school year round to receive a better education."

311) Explain whether the statement "The government should increase tariffs on Japanese cars to protect the American car industry from competition," is a normative or positive statement.

Answer: The statement is normative. The statement is a normative statement because it depends on a value judgment, namely that the government should protect the American car industry from competition.

312) Suppose you are working four nights per week at your courses and your grade point average is 3.5. You want a higher grade and decide to study an extra night each week. Your GPA now rises to 3.8. What is your marginal benefit from studying for one additional night a week?

Answer: Marginal benefit is the benefit that arises from an increase in an activity. Your marginal benefit is the 0.3 increase in your grade. It's not the 3.8 grade because you already have the benefit from studying for four nights a week and should not count this benefit as resulting from the decision you are now making.

313) Jerry is studying three nights per week and his grade point average is 3.1. He wants a higher GPA and decides to study an extra night each week. His GPA now rises to 3.5. Had Jerry not decided to study an extra night, he would have spent this night with his friends. What is Jerry's marginal benefit from studying for one additional night a week? What is his marginal cost of increasing the study time by one night per week? Why does Jerry decide to study an extra night?

Answer: Marginal benefit is the benefit that arises from an increase in an activity. Jerry's marginal benefit is the 0.4 increase in his grade. Marginal cost is the opportunity cost of an increase in an activity. Jerry's marginal cost is a night spent with his friends that he gives up. Jerry decides to stud an extra night because he values the marginal benefit from it (the 0.4 increase in his grade) more highly than its marginal cost (a night spent with his friends).

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

314) Scarcity applies to both the rich and the poor.	314)
Answer: True False	
315) Rich people don't have to deal with scarcity.	315)
Answer: True Selse	
316) Scarcity affects only those who are in need.	316)
Answer: True Selse	
317) Scarcity arises because of opportunity costs.	317)
Answer: True 👂 False	

318)	Microecono	mics is the	estudy of topics such as national production and unemployment.	318)
	Answer:	True	False	
319)	Macroecono		e study of aggregate variables such as national production and	319)
	Answer:		False	
320)	The tools, in		s, machines, and buildings that people use to produce goods and services are	320)
	Answer:	True	False	
321)	Most incom	ne in the Ui	nited States is earned by business owners as profit.	321)
	Answer:	True	Palse	
322)	The United	States pro	duces more services than goods.	322)
	Answer: 0	True	False	
323)	A country u	•	ly labor to build a dam instead of using mainly machines is answering the	323)
	Answer: 0	True	False	
324)	When a bus	siness incre	eases its workers' wages, it is answering the "what" question.	324)
	Answer:	True	False	
325)	The new pr	oducts and	I processes introduced during the Information Revolution of the last twenty	325)
	years were U.S. govern		a successful implementation of a strategic economic plan designed by the	
	Answer:	True	False	
326)	,		novie ticket rather than two paperback books, the opportunity cost of going to aperback books I did not buy.	326)
	Answer: 0	True	False	

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 327) Suppose you plan to go to school this summer. The cost of tuition and textbooks is \$1,400 and housing, board, and entertainment will cost you \$500. If you didn't go to school, you'd live in your parents' house for free, but your other living expenses would be about the same. Also, if you didn't go to school you'd work full time and could earn \$8,000. You can still work part time while attending the summer school, but you will earn only \$3,000.
 - a) What will the summer school cost you in terms of money explicitly paid?
 - b) What are the opportunity costs of going to summer school that you don't pay explicitly? Explain.
 - c) What is your total opportunity costs of going to school this summer? Explain your answer.

Answer: a) You explicitly pay the cost of tuition and textbooks (\$1,400) and the cost of housing (\$500), so your total explicit costs are \$1,900.

- b) Your opportunity cost is what your give up to go to summer school. You forego a fulltime job, at whic would earn \$8,000, in exchange for a part-time job, where you earn \$3,000, which means you give up \$5,0 Although you don't pay this money explicitly, you lose the opportunity to earn it and so it's an opportunity of attending summer school.
- c) First, your opportunity cost includes the cost that you pay explicitly (\$1,900), which you have to pay o you go to school. If you decide not to go to school, you can use this money to buy something else—an opportunity you are giving up. Second, as explained in the previous part, you are also giving up \$5,000, although not paying this money explicitly. So your full opportunity cost of going to school is \$1,900 + \$5,000 = \$6,900.
- 328) Jane is deciding whether to go to school for 8 weeks this summer. The cost of tuition and textbooks is \$1,700 and housing and other expenses will cost her \$600. If she does not go to school, she will live in her parents' house for free and they will cover her food and other expenses for her. Also, if Jane does not go to summer school she could work fulltime. But the best job she can get pays only \$600 per week, and Jane would only agree to give up free time for no less than \$750 per week. However, if she goes to summer school, she'll have to spend 40 hours a attending classes and studying.
 - a) What will the summer school cost Jane in terms of money spent?
 - b) What are the opportunity costs of going to summer school that Jane does not pay explicitly? Explain.
 - c) What is Jane's total opportunity cost of going to school this summer? Explain your answer.
 - d) Suppose that if Jane does not go to summer school, she will eventually take the classes anyway. What is Jane marginal benefit of going to summer school?
 - e) Suppose Jane decides to go to school in the summer. Explain her decision using the concepts of marginal cos marginal benefit.

Answer: a) Jane explicitly pays the cost of tuition and textbooks (\$1,700) and the cost of housing (\$600), so her total explicit costs are \$2,300.

- b) Jane's opportunity cost is what she gives up (her best alternative forgone) to go to summer school. In t case she foregoes 40 hours per week of her free time, which she values more highly then the income from t best job she could find. To place a dollar value on this time, notice that the value that she places on this tin is the amount of money she is willing to accept to give it up: \$750 per week. So for the eight weeks, her free time has a value of $750 \times 8 = 6,000$. Although she does not pay 6,000 explicitly, she gives up this va of her free time and hence it's an opportunity cost to her.
- c) Jane's total opportunity cost includes the cost that she pays explicitly, \$2,300, which she has to pay onl goes to school. Also, as explained in the previous part, Jane is giving up the value of her free time, \$6,000. her full opportunity cost of going to school is \$2,300 + \$6,000 = \$8,300.
- d) Jane's marginal benefit of going to summer school is the possibility of getting her degree faster. For in: if the summer school allows her to graduate one semester earlier, she can start to work and earn income earlier additional income and work experience that she gets because of her earlier graduation is what she gai she decides to go to school in the summer.
- e) Jane decides to go to school in the summer if her marginal benefit from this decision, the value of extra income and work experience that she gets if she graduates earlier, is greater than the marginal cost of her summer school, \$8,300.

- 329) Suppose Canon Inc. decided to invest 45 billion yen in developing and launching a new model of its digital camera, expecting that it will bring additional sales of 60 billion yen. The company has already invested 38 billion yen when the marketing department suddenly finds out that the introduction of a similar camera by Sony will reduce Canon's expected additional sales to 30 billion yen. The company's management is trying to decide whether to continue investing in the new product or close the project. Canon hires you as an economic consultant. So, think like an economist to help the company's management make their decision:
 - a) At this point in time, what is Canon's marginal cost of introducing the new product?
 - b) What is Canon's marginal benefit from introducing the new product?
 - c) Will you advise Canon to finish the project and introduce the new product? Why or why not? What principles of economic thinking will help you analyze the situation and make the right choice?

Answer: a) Canon's marginal cost is the additional investment needed to finish the project, which is 7 billion yen.

- b) Canon's marginal benefit is the benefit that arises from the new product, the additional revenue from which in the changed situation is expected to be 30 billion yen.
- c) The principle of choosing at the margin will help. According to this principle, the amount of money al spent is irrelevant to the decision you are making now. That is, you should only consider the marginal costs and marginal benefits that will result from the decision in question. Now, if Canon goes ahead, finishes the project and introduces the new camera, it will cost them additional 7 billion yen, but they will gain additional sales of 30 billion yen. The marginal benefit of introducing the new product exceeds the marginal cost, which means the company should invest 7 billion yen to finish development and introduce the new product. Notice also that if Canon abandons the project, there will be no additional money costs, but the opportunity cost will be the additional sales (30 million yen) that the company is potentially losing. Thus, the concept of opportunity cost also helps to clarify the situation.
- 330) Your student association is looking for an auditorium to rent for an all-day conference. The university's Performing Arts Center is vacant on that day, so the association wants to rent it. The physical plant manager tells you that the daily rent is \$660, which includes \$400 to cover part of the cost paid to build the Center, \$40 to cover part of its regular maintenance cost, \$50 to help pay for the building's insurance, \$100 to cover the extra cost of electricity that the university would incur because of the conference, and \$70 to pay for additional janitori services for the conference. You know that no one else wants to rent the Center on that day and you think that the that the manager charges is too high. But how much should you pay? Use the economic way of thinking to answeguestion and to convince the manager to accept your offer:
 - a) If you rent the Center, what will be the university's marginal cost of renting the center to you?
 - b) If you rent the Center, what will be the university's marginal benefit of renting the center to you?
 - c) What amount of rent should you offer? Convince the manager to accept your offer.

Answer: a) The university's marginal cost is \$170. These are the extra cost of electricity (\$100) and janitorial servic that the university will only pay if you rent the Center. The costs of building the Center, insurance, and requaintenance costs are not extra costs incurred because you rent the Center. The university has already pai building it and pays the cost of insurance and regular maintenance no matter whether you rent the Center Therefore these costs are not marginal costs of renting the center to you.

- b) The university's marginal benefit is the amount of rent that you pay.
- c) You should start negotiating from \$171. Because the university's marginal cost is \$170 and the amount pay is its marginal benefit, the university will be better off if it accepts any amount greater than \$170. If the manager is still not convinced, tell the manager that, since no one else wants to rent the Center on that day, declining your offer is not cost free. The opportunity cost of not accepting it will be the difference between the offered rent and \$170. In practice, of course, there are transaction costs, such as the time spent by both parties to negotiate and sign the agreement, and accepting your offer will cost the manager some extra time and organizational effort. Also, as you learnt in this chapter, people are guided by self interest when they make their decisions and the manager's self interest is not necessarily the same as the university's interest. On the other hand, you might want to support your university. Therefore the amount of rent you will agree upon is likely to be higher than \$171.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

331) The horizontal axis in a graph

331)

- A) measures time on a scatter diagram.
- B) is named the y-axis.

C) is named the x-axis.

D) measures the quality of a variable.

Answer: C

332) The vertical axis in a graph

332)

- A) has no origin.
- B) measures time in a cross-section/time series graph.
- C) is named the x-axis.
- D) is named the y-axis.

Answer: D

333) The value of the y-coordinate of a point in a graph is the length of a line from the point to the

333)

- A) x-axis.
- B) scalar.
- C) y-axis.
- D) origin.

333)

Answer: A

334) The value of the x-coordinate of a point in a graph is the length of a line from the point to the

334)

- A) y-axis.
- B) scalar.
- C) origin.
- D) x-axis.

Answer: A

335) On the horizontal axis of a graph, generally

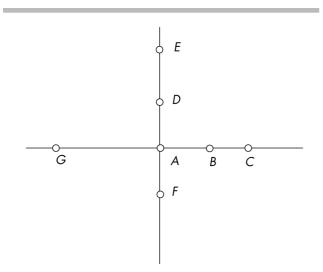
335)

C) values increase from left to right.

A) values can be positive and/or negative.

B) values increase from right to left.D) Both answers A and C are correct.

Answer: D



336) In the figure above, the value on the x-axis increases as we move from

336)

- A) point G to point A.

B) point *F* to point *A*.

C) point C to point A.

D) point *E* to point *A*.

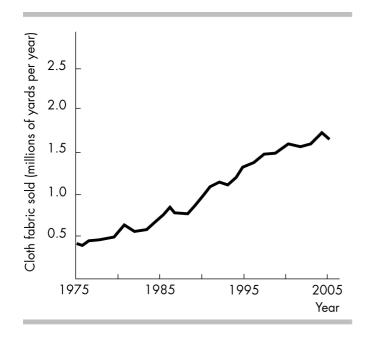
337) In the figure above, the value on the y-axis decreases			337)
A) point E to point A.C) point G to point A.Answer: A	B) point <i>C</i> to point <i>A</i> . D) point <i>F</i> to point <i>A</i> .		
338) In the figure above, point <i>B</i> is			338)
A) a coordinate B) on the x-axis	C) on the y-axis	D) at the origin	
Answer: B			
Axis 2			
<u>b</u> <u>c</u>			
Axis 1			
			220)
 339) Using the above figure, the origin is at which point? A) Point a B) Point b C) Point c D) None of the points in the figure is the origin. Answer: B 			339)
340) Using the above figure, which of the following is true	- ?		340)
 A) Point b is known as the origin. C) Axis 2 is typically called the x-axis. 	B) Axis 1 is typically ca D) Axis 1 is also known		
Answer: A			
341) To see how variables evolve over time we use			341)
A) a scatter graph.C) a time-series graph.	B) a cross-section plot.D) an evolution plot.		

Answer: C

342) To show how a variable, we typ	ically use a	342)
A) relates to another variable; pie chart		
B) evolves over time; cross-section gra	ph	
C) evolves over time; time-series grapl	•	
D) relates to another variable; time-ser		
	graph	
Answer: C		
343) A graph that measures time on the horizon	ontal axis and one or more variables on the vertica	l axis is 343)
called a(n)		
A) time-series graph.	B) cross-section graph.	
C) one-dimensional graph.	D) inverted graph.	
	_, gp	
Answer: A		
344) Which type of graph is used to identify tro	ends?	344)
A) time-series	B) cross-section	,
C) scatter	D) None of the above answers is corr	rert
,	b) None of the above answers is con	CCC.
Answer: A		
345) Which of the following is correct about a	time-series graph?	345)
I. The <i>x</i> -axis measures time.	30.130 g. up	
II. A time-series graph can reveal if ther	e is a trend in the variable	
A) only I B) only II	C) both I and II D) neither	I nor II
	c) bott rand it b) heither	THOTH
Answer: C		
346) From a time-series graph showing sales of	of shoes in dollars on the vertical axis, it is not pos	sible to 346)
tell	or shoes in donars on the vertical axis, it is not pos	
A) the changes in sales over time.		
B) the level of sales at a given time.		
C) the speed of change in sales over tin		
	t because it is possible to tell all of the above from	tne
time-series graph described.		
Answer: D		
247) Time cories graphs can quickly convey in	formation about	247)
347) Time-series graphs can quickly convey in		347)
A) the direction of change in the value		
B) the level of a variable at any point in		
C) whether there is a trend in the varia		
D) All of the above answers are correct		
Answer: D		
240) 4 11	a ta a	240)
348) A time-series graph reveals whether ther	·	348)
A) trend in a variable; a general tenden		
B) trend in a variable; unrelated variab		
C) relationship between two variables;		
D) relationship between two variables;	a trend in a variable	
Answer: A		

349) A time-series graph showing total production in Japan from 1960 to 2002 shows a positive trend. It		
is the case that total production		
A) was higher in 2002 than in 1960.	B) was lower in 2002 than in 1960.	
C) fell every year between 1960 and 2002.	D) rose every year between 1960 and 2002.	
Answer: A		
350) A time-series graph showing the unemployment rat trend. It is likely that the unemployment rate	e between 1980 and 2002 shows a negative	350)
A) fell every year between 1980 and 2002.	B) was lower in 2002 than in 1980.	
C) rose every year between 1980 and 2002.	D) was higher in 2002 than in 1980.	
Answer: B		
351) You think that the volume of textiles produced in the belief means that in a time-series graph illustrating to A) a positive trend.	<u> </u>	351)
B) no relationship between time and the amount p	oroduced.	
C) a linear relationship.		
D) an inverse relationship between time and the a	mount produced.	
Answer: D		
352) Demonstrating how an economic variable differs acr	oss countries for a specific year is best	352)
illustrated by		
A) a scatter diagram.		
B) a cross-section graph.		
C) a time-series graph.		
 D) None of the above because any type of graph n 	nignt misiead.	

Answer: B



353) In the above figure, the amount of cloth fabric sold over time exhibits

353)

- A) an upward trend.
- B) a downward trend.
- C) no trend.
- D) None of the above because the figure cannot show the trend of the amount of cloth fabric sold.

Answer: A

354) On a time-series graph, time is typically shown

354)

A) as an area.

- B) along the y-axis.
- C) as an implicit variable held constant.
- D) along the x-axis.

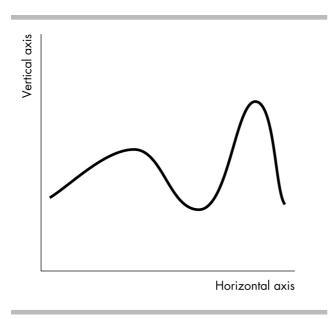
Answer: D

355) The horizontal axis on a time-series graph

355)

- A) runs parallel to the y-axis.
- B) measures units of time such as years.
- C) measures how the variable being graphed changes.
- D) measures the variable being graphed.

Answer: B



356) The figure above shows a time-series graph. The horizontal axis measures _____ and the _____

vertical axis measures _____.

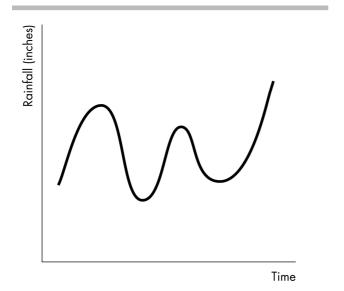
A) y-values; the variable of interest

C) time; the variable of interest

Answer: C

B) time; x-values

D) the variable of interest; time



357) The figure above shows a

A) scatter diagram.

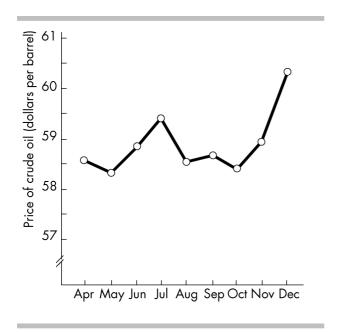
C) time-series graph.

Answer: C

B) regression.

D) two-variable time-series graph.

357)



358) Using the above figure, during which month was the price for crude oil the highest?

358)

- A) October
- B) July
- C) December
- D) May

Answer: C

359) Using the above figure, during which of the following periods does the price of crude oil have a downward trend?

359)

- A) May to July
- C) May to November

- B) October to December
- D) July to October

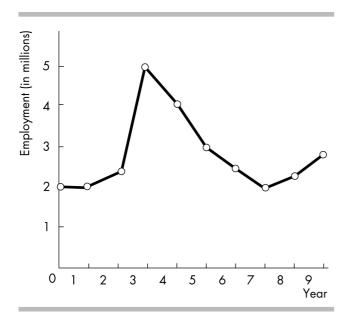
Answer: D

360) Using the above figure, during which of the following periods does the price of crude oil shows an upward trend?

360)

- A) April to November
- C) July to October

- B) May to November
- D) May to July and October to December

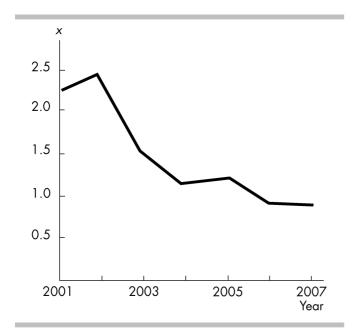


361) According to the graph in the figure above, which year experienced the most rapid change in employment?

361)

- A) Year 2
- B) Year 4
- C) Year 5
- D) Year 3

Answer: D



362) In the above figure, the diagram shows

- A) a downward trend in x.
- C) a two-variable scatter diagram.

Answer: A

- B) an upward trend in x.
- D) a scatter diagram.

362) ____

363) A time-series graph displaying real GDP from 1950	to 2008 has a positive trend. It is likely that real	363)	
GDP A) rose every year from 1950 to 2008. C) was higher in 1950 than in 2008.	B) was lower in 1950 than in 2008. D) fell every year from 1950 to 2008.		
Answer: B			
 364) Inflation climbed steadily from 1952 to 1972. A time and time (in years) on the horizontal axis would sho A) the rate of inflation as a horizontal line. B) that inflation had a positive trend. C) that inflation had a negative trend. D) that inflation was following a decreasing trend. 	ow .	364)	
Answer: B			
365) A time-series graph displays the price of copper. The	ue slope of the line is negative for periods when	365)	
A) price of copper is rising.C) price of copper is low and not changing.Answer: D	B) quantity of copper is falling.D) price of copper is falling.		
366) A graph shows the wages of factory workers. The sle wage rate is	ope of the line is positive for periods when the	366)	
A) high but not rising any higher. C) rising.	B) falling. D) low.		
Answer: C	,		
367) A trend is		367)	
 A) the maximum value of a variable. B) a measure of closeness on a scatter diagram. C) the minimum value of a variable. D) a general tendency for a variable to rise or fall. 			
Answer: D			
368) A trend shows		368)	
A) the scale used to measure to variables.B) the degree of correlation between two variableC) the general tendency for a variable to rise or faD) the increases in one variable.			
Answer: C			
369) Trend refers to		369)	
 A) decreases but not increases of a variable. B) the scale used on the x- and y-coordinates. C) a general tendency for a variable to rise or fall. D) increases but not decreases of a variable. 			
Answer: C			

		>
 370) Which of the following is TRUE regarding a trend? I. A cross section graph shows trends. II. A time-series graph shows trends. III. A scatter plot shows trends over time. A) I only B) II only Answer: B 	C) I and II D) II and III	370)
371) A cross-section graph shows the value of a variableA) as an absolute rate of change over time.C) for a given group across time.Answer: B	B) for different groups at a point in time. D) as a percentage rate of change over time.	371)
372) A shows relative values for different groups A) scatter plot C) cross-section graph Answer: C	s at a certain point in time. B) regression D) time-series graph	372)
Percentage created by industry (percent) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

373) The above figure shows sources of air pollution. The figure is

373)

374)

A) a multi-variable line graph.

B) a scatter plot diagram.

C) a cross-section graph.

D) a time-series graph.

Answer: C

0

374) Which type of graph shows the values of an economic variable for different groups in a population at a point in time?

Source of air pollution

A) cross-section

B) scatter

C) time-series

D) None of the above answers is correct.

375) A graph shows the average wage of various demogrators to show this data would be	phic groups in 2007. The kind of graph used	375)
A) a time-series graph.	B) a cross-section graph.	
C) a Venn-diagram.	D) a scatter plot.	
Answer: B	b) a scatter prot.	
Allower. D		
376) A graph shows the average SAT scores for males and show this data would be	females in 2009. The kind of graph used to	376)
A) a cross-section graph.	B) a scatter plot.	
C) a time-series graph.	D) none of the above	
Answer: A		
377) Suppose that we plot, on a bar chart, levels of average classes at a point in time. This graph is an example of		377)
A) cross-section graph.	B) three-dimensional graph.	
C) inverted graph.	D) time-series graph.	
Answer: A		
378) A cross-section graph examines		378)
A) one variable at a point in time.	B) two time-series over time.	376)
C) one variable over time.	D) two variables over time.	
Answer: A	,	
 379) For cross-section graphs A) it is always best to use a time-series diagram. B) all information relates to the same time frame. C) it is always best to use a scatter diagram. D) Both answers B and C are correct. 		379)
Answer: B		
380) A graph that shows the average income of different c	ities for a given year is considered to be	380)
A) a time-series graph.	B) a trend graph.	
C) the origin.	D) a cross-section graph.	
Answer: D		
		204)
381) You have data for real income per person for develop best display these data would be a	oing countries in 2002. The type of graph to	381)
A) scatter diagram.	B) time-series graph.	
C) multi-variable time-series graph.	D) cross-section graph.	
Answer: D		
382) You have data for sales revenues for all the pizza stor	res you own for the month of September. The	382)
type of graph to best display these data would be a	у	
A) cross-section graph.	B) scatter diagram.	
C) Venn diagram.	D) time-series graph.	
Answer: A		

383)	383) You have data for the amount of rainfall in 50 cities for the month of June. The type of graph to best display these data would be a		383)
	A) scatter diagram.	B) cross-section graph.	
	C) time-series graph.	D) multi-variable time-series graph.	
	Answer: B	b) main variable time sories graph.	
384)	You have data for average tax rates for each of the 50	states for 2002. The type of graph to best	384)
	display these data would be a		
	A) time-series graph.	B) scatter diagram.	
	C) multi-variable time-series graph.	D) cross-section graph.	
	Answer: D		
385)	An economist is studying how wages for high-school countries in 2007. These data could be graphed in	ol dropouts vary among six western European	385)
	A) a one-variable graph.B) a time-series graph with each different countryC) two triple-axes graphs.D) a cross-section graph.	y measured along the horizontal axis.	
	Answer: D		
386)	A school board is studying how test scores vary by so	ocio-economic levels. The data represent	386)
	information observed in 2007. The most effective way		
	A) trending-line graph.	B) cross-section graph.	
	C) one-variable graph.	D) time-series graph.	
	Answer: B		
387)	A scatter diagram shows the		387)
	A) change in one variable over time.	B) evolution of a variable.	
	C) level of one variable over time.	D) relationship between two variables.	
	Answer: D		
388)	A scatter diagram will be most useful		388)
	A) in discerning a possible relationship between heB) in predicting next year's rate of unemploymentC) in resolving a dispute over two normative asserD) All of the above are correct.		
	Answer: A		
389)	Which type of graph is most useful in determining if	two variables are correlated?	389)
	A) cross-section	B) scatter	
	C) time-series	D) None of the above answers is correct.	
	Answer: B		
390)	Which type of graph should be used if the purpose o	f the graph is to check the strength of the	390)
	relationship between savings and income?		
	A) a scatter diagram	B) a time-series graph	
	C) a trend diagram	D) a bar chart	

391)	You notice that when interest rates increases,	new residential housing prices tend to decrease. This
	observation indicates that	

391)

- A) there must be false causality between interest rates and housing prices.
- B) a scatter diagram between interest rates and housing prices will show a negative relationship.
- C) a cross-section graph between interest rates and housing prices will show a negative relationship.
- D) higher interest rates must cause low housing prices.

Answer: B

392) Recording data about students' class year and GPA in a graph will yield

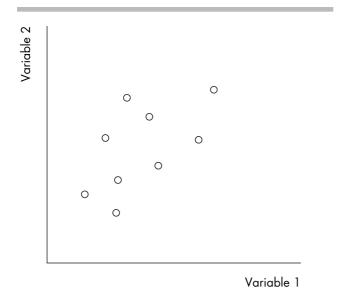
392)

- A) no relationship, under any circumstances.
- B) a scatter diagram.

C) a contour map.

D) a time-series diagram.

Answer: B

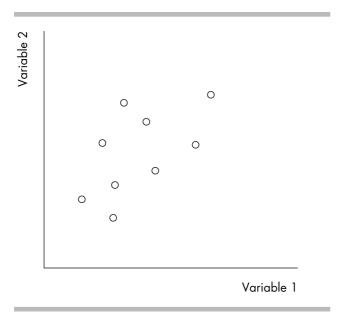


393)

- A) cross-section graph.
- B) time-series graph.
- C) scatter diagram.
- D) not a scatter diagram, nor a time series graph, nor a cross-section graph.

Answer: C

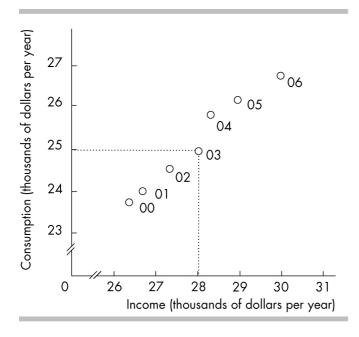
393) The figure above is a



394) The above figure is

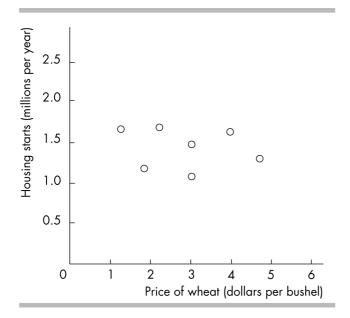
394)

- A) a scatter diagram showing that there is no clear relationship between unemployment and inflation.
- B) an economic model showing that when unemployment falls, inflation rises.
- C) a time-series graph showing that when unemployment rises, so too does inflation.
- D) a cross-section graph showing that when unemployment falls, so too does inflation.



- 395) The above figure plots income and consumption in a nation. In 2003
 - A) consumption was equal to \$27,000 and income was equal to \$31,000.
 - B) consumption was equal to \$25,000 and income was equal to \$28,000.
 - C) consumption was equal to \$25,000 and income was equal to \$25,000.
 - D) consumption was equal to \$28,000 and income was equal to \$25,000.

Answer: B



- 396) The above figure graphs the price of a bushel of wheat and housing starts. The graph shows the variables are
 - A) related via an indirect relationship.
 - C) not related.

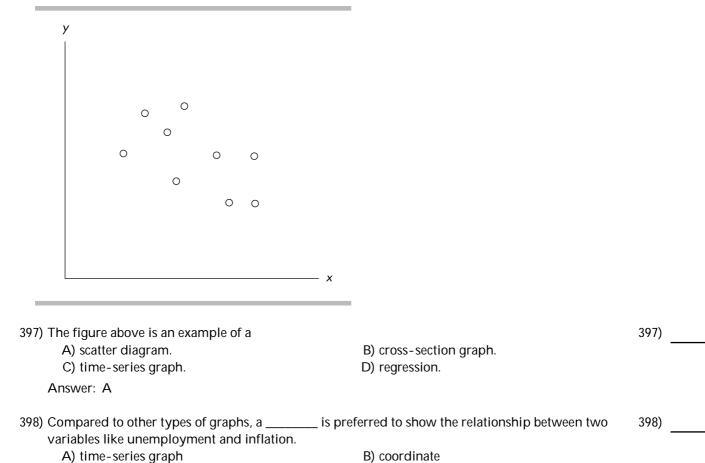
B) strongly negatively related.

395)

396)

Answer: C

D) strongly positively related.



D) cross-section graph

399)

B) a scatter diagram.

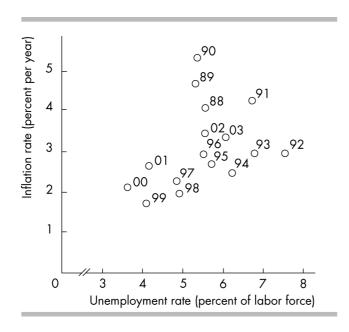
C) scatter diagram

- C) a time-series graph.
- D) neither a time-series nor a scatter diagram.

A) a time-series and a scatter diagram.

Answer: B

Answer: C



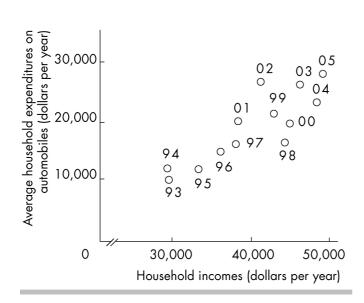
400) The figure above shows that in 1996, unemployment was equal to about _____ and the inflation 400)

rate was equal to about _____ A) 6.0 percent; 4.0 percent

C) 7.0 percent; 3.0 percent

Answer: B

B) 5.5 percent; 3.0 percent D) 3.0 percent; 5.5 percent



401) The above figure is a

A) time-series graph.

C) scatter diagram.

Answer: C

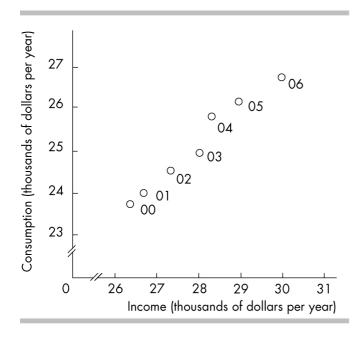
B) cross-section graph.

D) None of the above answers is correct.

401)

- A) that as household income increases the average household expenditure on automobiles decreases.
- B) that as household income increases the average household expenditure on automobiles increases.
- C) no relationship between household income and average household expenditure on automobiles.
- D) All of the above are possible.

Answer: B

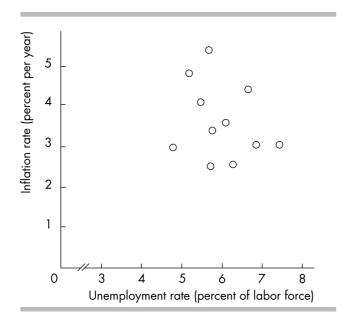


403) In the above figure, the axis breaks are used

403)

- A) to create a misleading graph.
- B) to show that there are no data available for the omitted ranges.
- C) to indicate that there are jumps from the origin, 0, to the first values recorded along the axes.
- D) to indicate that there are not enough data to be included in the graph.

Answer: C



404) In the above figure, the axis break in the x-axis

404)

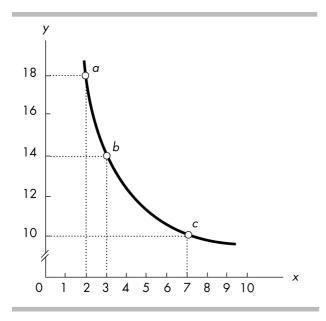
- A) shows that there is no relationship between inflation and unemployment.
- B) misleadingly shows that inflation has changed very little even though the unemployment rate has increased a great deal.
- C) implies that for the years covered in the figure, the inflation rate was always greater than 1 percent.
- D) reflects the fact that for the years covered in the figure, the unemployment rate was never less than 3 percent.

Answer: D

405) On a graph, high correlation between the variable measured along the x-axis and the variable measured along the y-axis

405)

- A) does <u>NOT</u> mean that a change in the variable measured along the *x*-axis must cause a change in the variable measured along the *y*-axis.
- B) means that changes in the variable measured along the *y*-axis must cause changes in the variable measured along the *x*-axis.
- C) means that changes in either variable must cause changes in the other variable.
- D) means that changes in the variable measured along the *x*-axis must cause changes in the variable measured along the *y*-axis.



406) In the above figure, the x-coordinate of point b is

A) 3.

B) 14.

C) 2.

D) 1.

406) ____

Answer: A

407) In the above figure, the y-coordinate of point b is

A) 3.

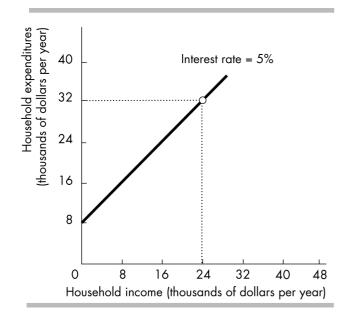
B) 2.

C) 14.

D) 1.

407)

Answer: C



408) In the above figure, when income is zero, household expenditures equal

A) \$1000.

B) 0.

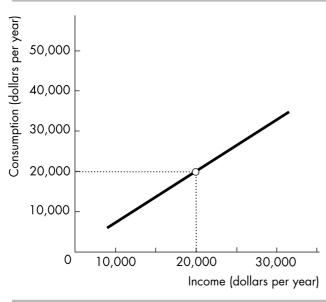
C) \$8000.

D) \$4000.

408)

Answer: C

409) Demonstrating how an economic variable changes from one year to the next is best illustrated by a		409)
A) one-variable graph.	B) cross-section graph.	
C) time-series graph.	D) linear graph.	
Answer: C		
•	ds produced in the United States has generally increased	410)
A) no relationship between time and the	ustrating the total amount produced, you expect to find he amount of goods produced. ne and the amount of goods produced.	
Answer: D		
411) You notice that when the inflation rate in observation indicates that	ncreases, the interest rate tends to increase. This	411)
A) a cross-section graph of the inflation relationship.B) higher inflation rates must cause a limit of the section of the se	ite and the interest rate will show a positive relationship.	
Answer: C		
 412) You hypothesize that more natural gas is sold in the Northeast when winters are colder. Which of the following possibilities would best reveal if your belief is correct? A) A scatter-diagram plotting the average temperature in the Northeast against the amount of natural gas sold. B) A trend diagram that plots the trend in natural gas sales over the last 30 years against the average temperature in the Northeast 30 years ago and this year. C) A time-series diagram showing the amount of natural gas sold in the Northeast during the last 30 years. D) A time-series diagram showing the average temperature in the Northeast during the last 30 years. Answer: A 		412)
413) Which type of graph can mislead?		413)
A) a scatter diagram	B) a cross-section graph	
C) a time-series graph	D) Any type of graph might mislead.	



414) In the figure above, when income equals \$2 A) \$0	B) \$20,000	414)
C) \$10,000	D) impossible to tell	
Answer: D		
415) If two variables are positively related, then		415)
A) they move in opposite directions.	B) they move in the same direction.	
C) they are independent of each other.	D) their graph will have a negative slope.	
Answer: B		
416) If two variables both increase at the same tiA) conversely related.C) unrelated to each other.	me or decrease at the same time, they are B) negatively related. D) positively related.	416)
Answer: D	, p	
 417) If there is a direct relationship between two A) the slope of the line (or the slope of a B) the graph of the relationship will be d C) the graph of the relationship will be d D) Both answers A and C are correct. 	tangent line to the curve) will be negative. lownward-sloping.	417)
Answer: C		
418) The variable measured on the <i>y</i> -axis increasincreases. As a result, the relationship betw	uses whenever the variable measured on the x-axis ween the variables will	418)
A) have a slope of zero.	B) be negatively sloped.	
C) he a vertical line	D) he none of the above	

419) A positive relationship exists between two variables if

419)

- A) a reduction in one variable is associated with a decrease in the other variable.
- B) a reduction in one variable is associated with an increase in the other variable.
- C) one variable has "positively" no effect on the other variable.
- D) both variables are inflation-distorted.

Answer: A

420) If the slope of a line that graphs the relationship between variable x and variable y is positive, then we know that

420)

- A) the two variables have an inverse relationship.
- B) the two variables are unrelated.
- C) when the value of variable x increases, then the value of variable y decreases.
- D) when the value of variable *x* decreases, then the value of variable *y* decreases.

Answer: D

421) For the Jones household it has been estimated that for every ten degrees increase in the outdoor temperature the consumption of ice tea increases by 5 glasses. What type of relationship exists between temperature change and the consumption of ice tea?

421)

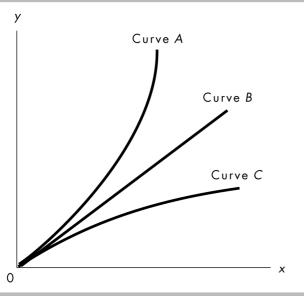
A) maximum relationship

B) no relationship

C) negative relationship

D) positive relationship

Answer: D



- 422) In the above figure, which curve shows a positive relationship between x and y?

422)

- A) Only curve A.
- B) Only curve B.
- C) Only curve C.
- D) All the curves show a positive relationship.

 423) In the above figure, which curve shows a negative relationship between x and y? A) Only curve A. B) Only curve B. C) Only curve C. D) None of the curves show a negative relationship. 	423)
Answer: D	
424) A scatter diagram with the price of vacations to Mexico on the vertical axis and the price of vacations to California on the horizontal axis shows a positive relationship. If the price of vacations to Mexico were placed on the horizontal axis, and the price of vacations to California on the vertical	424)
 axis, the relationship would be A) positive relationship, also called a direct relationship. B) negative relationship, also called a direct relationship. C) negative relationship, also called an inverse relationship. 	
D) positive relationship, also called an inverse relationship.Answer: A	
425) If you hire 1 worker, he can produce 10 pretzels a day. If you hire a 2nd worker, she can produce 8	425)
more pretzels. If you hire a 3rd worker, she can produce 6 more pretzels a day. A graph displaying this relationship between the number of employees on the horizontal axis and total pretzel output per day on the vertical axis shows A) an upward-sloping curve that becomes less steep as employment increases. B) a positive linear relationship. C) a negative linear relationship. D) a negatively-sloped curve that becomes less steep as employment as increases. Answer: A	
Variable 1	
426) The figure above shows relationship between the two variables. A) a negative B) no C) a positive D) an inverse Answer: C	426)

427) "As you devote more hours to studying, your GP	A increases." A graph of this relationship would	427)
show A) a direct relationship.	B) a positive relationship.	
C) an inverse relationship.	D) Both answers A and B are correct.	
Answer: D		
428) "As interest rates rise, people save more money." A) an inverse relationship.	B) a cross-section graph.	428)
C) a positive then a negative relationship.Answer: D	D) a positive relationship.	
 429) "If you hire 1 worker, the worker can produce 20 worker can produce 10 more pizzas. If you hire a pizzas a day." A graph displaying this relationsh pizza output per day would show A) a negatively-sloped curve that becomes les B) a positive linear relationship. C) a negative linear relationship. D) an upward-sloping curve that becomes less Answer: D 	i 3rd worker, that worker can produce 2 more ip between the number of employees and <i>total</i> s steep.	429)
 430) If you study 3 hours for an exam, you can raise y hours your score increases by 10 points. And if you increase by 5 more points. A graph displaying the studied and your total exam score would show A) an upward-sloping curve that becomes modely a positive linear relationship. C) a negative linear relationship. D) an upward-sloping curve that becomes less Answer: 	ou study for another 3 hours, your score will is relationship between the number of hours are steep.	430)
431) Suppose you produce 10 bikes a day for a total compose you produce 15 bikes. Finally, total costs increased the relationship between total costs and the number A) a negatively-sloped line that becomes steep B) a positively-sloped line that becomes flatter C) a positively-sloped line that becomes steep D) a negatively-sloped line that becomes flatter Answer: C	e to \$1300 if you make 20 bikes. A graph showing ber of bikes produced would be per. er. eer.	431)

Х	у
0	0
2	6
4	12
6	18
8	24
10	30

432) In the above table, v	when x increases from 4	units to 6 units, y changes by	units.	432)
A) -6	B) -2	C) 6	D) 2	

Answer: C

433) The above table indicates that variables *x* and *y* are

A) second cousins.

B) positively related.

C) negatively related.

D) inversely related.

Answer: B

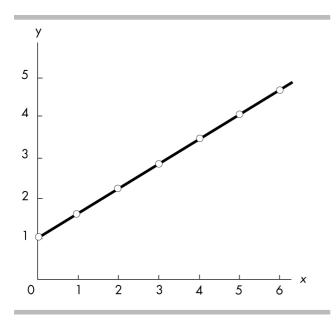
Х	у
0	2
1	5
2	8
3	11
4	14
5	17

434) Given the information in the above table, the relationship between x and y is

434)

433)

- A) positive and linear.
- B) negative and linear.
- C) positive, and the curve becomes flatter as *x* increases.
- D) positive, and the curve becomes steeper as *x* increases.



- 435) In the above figure, the relationship between x and y is
 - A) negative and linear.
 - B) positive, and the curve becomes flatter as *x* increases.
 - C) positive, and the curve becomes steeper as *x* increases.
 - D) positive and linear.

Answer: D

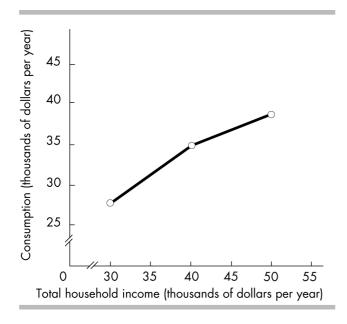
Total household income	Total consumption		
(dollars)	(dollars)		
30,000	27,000		
40,000	35,000		
50,000	38,000		

436) The data in the table above shows the relationship between the Joneses' total consumption and total household income. Based on these data, total consumption varies

435)

- A) negatively with their income.
- B) inversely with their total household income.
- C) independently of their total household income.
- D) directly with their total household income.

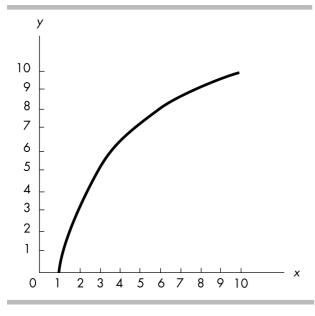
Answer: D



- 437) The above figure shows the relationship between the Joneses' total consumption and total household income. The figure illustrates that the Joneses' total consumption varies
 - A) negatively with their income.
 - B) independently of their total household income.
 - C) inversely with their total household income.
 - D) directly with their total household income.

Answer: D

437)



 438) The relationship depicted in the above figure is A) a negative linear relationship. B) a positive becoming less steep relationship C) a positive linear relationship. D) a positive becoming steeper relationship. Answer: B).	438)
 439) Whenever one variable increases, another variable. A) negatively related. B) unrelated to each other. C) definitely related through a third variable. D) positively related. 	ole decreases. The two variables are	439)
Answer: A		
440) If variable x always increases when variable y deA) trend related.C) positively related.Answer: B	ecreases, <i>x</i> and <i>y</i> are said to be B) negatively related. D) unrelated.	440)
 441) If there is an inverse relationship between variable x will be accompanied by A) an increase in the value of variable y. C) a decrease in the value of variable y. Answer: C 	B) variable y, then an increase in the value of B) variable y reaching its maximum value. D) no change in the value of variable y.	441)
442) If there is an inverse relationship between two v A) graph of this relationship will be downwar		442)

D) slope of the line (or the slope of a tangent line to the curve) will be positive.

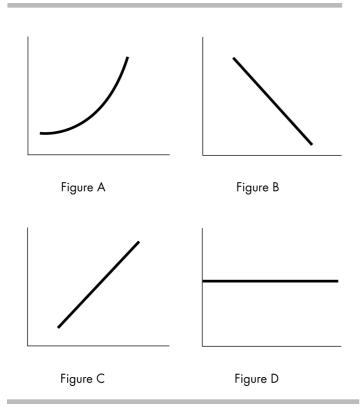
B) graph of this relationship will be upward-sloping.C) graph of this relationship will be a horizontal line.

443) A negative relationship exists between the va	riable measured along the y-axis and the variable	443)
measured along the x-axis if		
A) the variable measured along the x-axis the opposite direction.	and the variable measured along the y-axis move in	
B) the variable measured along the <i>x</i> -axis the same direction.	and the variable measured along the y-axis move in	
C) an increase in the variable measured alo variable measured along the y-axis.	ong the x-axis is associated with an increase in the	
	ong the x-axis is associated with a reduction in the	
Answer: A		
444) Along a curve, when one variable increases, t	the other variable decreases. The curve showing this	444)
relationship has		
A) a positive slope.	B) a zero slope.	
C) an increasing then a decreasing slope.	D) a negative slope.	
Answer: D		
445) "As interest rates fall, people spend more." A	graph showing the relationship between interest rates	445)
and spending would have		
A) an inverse relationship.	B) a negative then a positive slope.	
C) a negative slope.	D) Both answers A and C are correct.	
Answer: D		
446) "As the price of gasoline increases, fewer peo	ple buy cars that are gas guzzlers." A graph showing	446)
this relationship would have		
A) a direct relationship.	B) a horizontal line.	
C) a positive relationship.	D) a negative slope.	
Answer: D		
447) A graph shows that as fees to use ATM mach	nines increase, people use them less frequently. The	447)
graph of this relationship would show		
A) an inverse relationship.	B) a negative relationship.	
C) a direct relationship.	D) Both answers A and B are correct.	
Answer: D		
448) "The price of long distance phone calls goes of	down after 5 p.m. and falls further after 11 p.m. As a	448)
result, people make more long distance phon	e calls as it gets later each night." A graph showing	
this relationship between long distance phon	e rates and the number of calls made would show	
A) a negatively-sloped curve.	B) an inverse relationship.	
C) a positively-sloped curve.	D) Both answers A and B are correct.	
Answer: D		
449) As the number of days without rain increases	s, the amount of wheat per acre grown declines. A	449)
graph showing this relationship shows		
A) a positive relationship.	B) a horizontal line.	
C) a vertical line	D) none of the above	

76

Answer: D

 450) As a firm produces more and more CDs, the average cost of producing each CD falls. A curve showing the behavior of the average cost of a CD as more CDs are produced A) would be positively sloped. B) would be horizontal. C) would be positively and then negatively-sloped. D) would be negatively sloped. 			
Answer: D			
 451) Suppose that we find that student grades a graph of the relationship between these two A) upward and may be linear or nonline B) downward and be linear. C) upward and be linear. D) downward and may be linear or non Answer: D 	ear.	451)	
452) The faster an automobile is driven (speed)	, the lower the miles per gallon (mpg) for that	452)	
·	y that an automobile's speed and mpg have B) a maximum relationship. D) a linear relationship.		
	ur snowboarding skills decrease. A graph of this	453)	
relationship would show	ur showboarding skins decrease. A graph or this	455)	
A) a negative relationship.	B) a direct relationship.		
C) an inverse relationship.	D) Both answers A and C are correct.		
Answer: D			
454) If the quantity of wood purchased decreas these variables would have	es when the price of wood rises, a graph representing	454)	
A) a positive slope.	B) time on the vertical axis.		
C) the slope on the vertical axis.	D) a negative slope.		
Answer: D			
455) A scatter diagram with the price of peanut	butter on the vertical axis and the price of jelly on the	455)	
	rect relationship. nverse relationship.		



456) In the above figure, a negative relationship is demonstrated in which of the graphs?

A) Figure A

B) Figure B

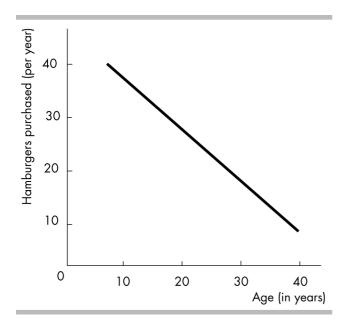
C) Figure C

D)

Answer: B

D) Figure D

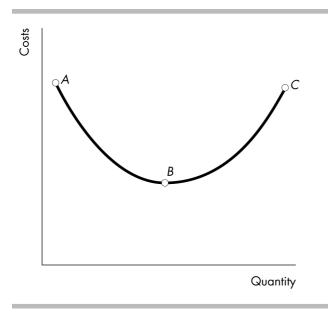
456) _____



457) The above figure depicts a

- 457)
- A) positive non-linear relationship between age and the number of hamburgers purchased per year.
- B) positive linear relationship between age and the number of hamburgers purchased per year.
- C) negative linear relationship between age and the number of hamburgers purchased per year.
- D) negative non-linear relationship between age and the number of hamburgers purchased per year.

Answer: C



458)

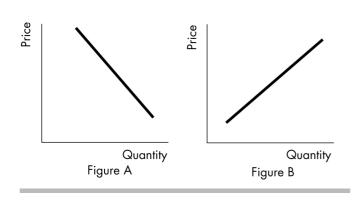
458) In the above figure, the relationship between costs and quantity is negative

A) between point A and point B.

C) between point B and point C.

B) at nowhere along the curve. D) along the entire curve.

Answer: A



459) In the above, a positive relationship between price and quantity is shown in

459)

A) Figure A

C) both Figure A and Figure B.

B) Figure B

D) neither Figure A nor Figure B.

Answer: B

460) In the above figure, a negative relationship between price and quantity is shown in

460)

A) Figure A.

C) both Figure A and Figure B.

B) Figure B.

D) neither Figure A nor Figure B.

461)	61) If a graph shows a negative relationship between two variables which then becomes a positive			
	relationship, this curve would			
	A) always be an upward-sloping line.	B) have a minimum point.		
	C) always be a downward-sloping line.	D) have a maximum point.		
	Answer: B			
462)	As a firm expands its output, cost per unit of output	ut (average cost) decreases and then increases.	462)	
	Average cost and output have			
	A) a relationship with a maximum.	B) no relationship.		

Answer: C

Decade	Productivity growth		
	(percent)		
1900s	1.80		
1910s	1.85		
1920s	2.40		
1930s	1.55		
1940s	2.60		
1950s	3.00		
1960s	2.55		
1970s	1.15		
1980s	1.23		
1990s	2.15		

C) a relationship with a minimum.

463) In the above table, two minimum points in the table are the decades of 463)

A) 1910s and 1970s.

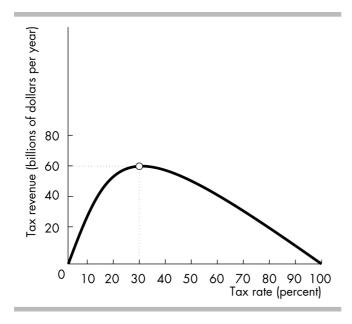
B) 1950s and 1980s.

D) a linear positive relationship.

C) 1930s and 1970s.

D) 1960s and 1970s.

Answer: C



- 464) In the above figure, the relationship between the tax rate and tax revenue is positive and becoming less steep between tax rates of
 - A) 30 percent and 100 percent.

B) 0 percent and 30 percent.

C) 0 percent and 100 percent.

D) None of the above answers are correct.

Answer: B

- 465) In the above figure, if the tax rate is increased from 20 percent to 30 percent, tax revenue
- 465)

464)

A) may increase or decrease.

B) is constant.

C) increases.

D) decreases.

Answer: C

466) In the above figure, tax revenue is at a maximum when the tax rate is

466)

- A) 100 percent.
- B) 0 percent.
- C) 50 percent.
- D) 30 percent.

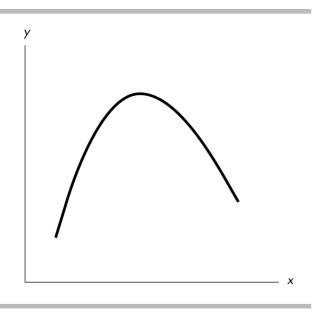
Answer: D

467) As a curve approaches a maximum point, the slope will

467)

- A) increase before and after the maximum point.
- B) remain constant on either side of the maximum point.
- C) be negative, then positive after the maximum point.
- D) be positive, then negative after the maximum point.

Answer: D



468) In the figure above, the relationship between the *x* variable and the *y* variable

468)

469)

- A) starts by being positive and then becomes negative.
- B) is negative.
- C) starts by being negative and then becomes positive.
- D) is positive.

Answer: A

Total number of	Total value of
workers	output(dollars)
15	10,000
16	12,000
17	9.000

- 469) Use the table above. Place the number of workers on the horizontal axis and the total value of output on the vertical axis. The graph displaying the data provided in the table would show
 - A) a positive relationship among all the data points.
 - B) a negative relationship among all the data points.
 - C) a horizontal line.
 - D) none of the above

Answer: D

Total number of	Average cost of producing a
workers	television set
	(dollars)
4	125
10	75
13	77
15	85

470) Graphing the data in the above table with the number of workers on the horizontal axis and the average cost on the vertical axis, the graph would show

470)

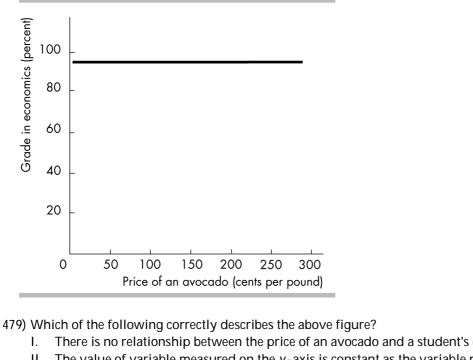
- A) no relationship.
- B) first a negative and then a positive relationship.
- C) a horizontal line.
- D) a linear relationship.

Answer: B

Year	Productivity growth rate (percent)
1990	-1.2
1991	1.9
1992	-3.3
1993	6.1
1994	7.9
1995	3.6
1996	3.4
1997	3.0
1998	4.1
1999	3.2
2000	0.7
2001	3.6

•	ove gives productivity growth rate was definitely at a minimum was	data for the nation of Ala	achua. The year when the	471)
A) 1990.	B) 2000.	C) 1996.	D) 1992.	
Answer: D				
•	ove gives productivity growth rate was definitely at a maximum was	data for the nation of Ala	achua. The year when the	472)
A) 1994.	В) 1990.	C) 1997.	D) 2000.	
Answer: A				
•	ove gives productivity growth rate and in productivity growth was	data for the nation of Ala	achua. Between 1994 and	473)
A) flat.	B) negative.	C) positive.	D) vertical.	

474) If a curve rises and then falls, it shows a		474)
A) maximum.	B) constant slope relationship.	
C) linear relationship.	D) minimum.	
Answer: A		
475) If a curve falls and then rises, it shows		475)
A) a constant slope relationship.	B) a maximum.	473)
C) a minimum.	D) a linear relationship.	
Answer: C	2) aoa. rotationop.	
Aliswei. C		
476) Along a curved line, the slope at the maximum		476)
A) is zero.		, <u> </u>
B) is less than zero.		
C) is greater than zero.		
D) may be greater than, less than, or equal to zero.		
Answer: A		
477) Monthly precipitation and monthly cable TV bills		477)
A) are positively related.	B) are unrelated.	,
C) are linearly related.	D) Both answers A and B are correct.	
Answer: B	•	
478) When y changes, x stays the same. The line depicting	this relationship would be	478)
A) horizontal.	B) linear with a positive slope.	
C) linear with a negative slope.	D) vertical.	
Answer: D	·	



7///	V V I I	icii di tiic i	onowing corre	city desci	ibes the abt	ove rigare.		
	I.	There is n	o relationship	between t	he price of	an avocado	and a student's	grade in

- II. The value of variable measured on the y-axis is constant as the variable measured on the x-axis increases.
- III. As a student's grade in economics increases, the price of an avocado increases.
 - A) I, II, and III
- B) II and III
- C) I only
- D) I and II

economics.

Answer: D

- 480) A diagram shows the quantity of tomatoes on the horizontal axis and the quantity of coffee on the vertical axis. The quantity of tomatoes remains constant as the quantity of coffee increases. The graph of these data is
 - A) a negatively sloped line

B) a positively sloped line.

C) a horizontal line.

D) a vertical line.

Answer: D

- 481) A graph measures y on the vertical axis and x on the horizontal. The curve on the graph is a horizontal line. From this fact we know that
- 481)

480)

479)

- A) the ratio of x to y is constant.
- B) the slope of the line is not defined because y never changes.
- C) the value of x never changes.
- D) the value of y does not depend on the value of x.

Answer: D

- 482) A graph measures y on the vertical axis and x on the horizontal. The curve on the graph is a vertical 482) line. From this fact we know that
 - A) the value of x does not change when the value of y changes.
 - B) the value of y is constant.
 - C) the ratio of y to x is constant.
 - D) the ratio of *x* to *y* is constant.

483) The graph of two variables, x and y, is a horizontal lirA) falsely related.C) negatively related.	ne. This result indicates that <i>x</i> and <i>y</i> are B) positively related. D) not related.	483)
Answer: D		
 484) Consider a diagram in which the variable measured or variable measured on the x-axis increases. The graph A) line with slope equal to zero. C) perpendicular line. Answer: A 	3	484)
485) An independent relationship between two variables i A) a horizontal or a vertical line. C) an upward-sloping line. Answer: A	s shown in a graph by B) a steeply sloped line. D) a downward-sloping line.	485)
x		
 486) In the above, as the y variable increases A) the x variable is constant. B) the x variable decreases. C) the x variable at first increases but then decrease D) the x variable increases. 	es.	486)
Answer: A		
 487) A graph shows the price of a pound of cucumbers on sold by GM on the horizontal axis. The price of a pou quantity of new cars sold increases. The graph of thes A) a vertical line. C) a positively-sloped line. 	nd of cucumbers remains constant as the	487)

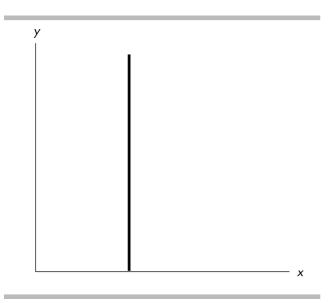
488) If two variables are unrelated, a scatter diagram of those variables will

488)

A) be a horizontal line.

- B) have a constant positive slope.
- C) be either a vertical or horizontal line.
- D) be a vertical line.

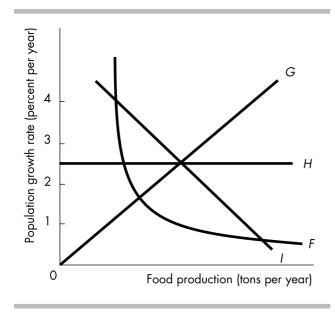
Answer: C



489) Which of the following correctly describes the above figure?

489)

- A) There is a positive relationship between *x* and *y*.
- B) There is no relationship between *x* and *y*.
- C) There is a negative relationship between *x* and *y*.
- D) None of the above answers are correct.



490) In the above figure, which curve indicates that the level of food production does not affect the population growth rate?

490)

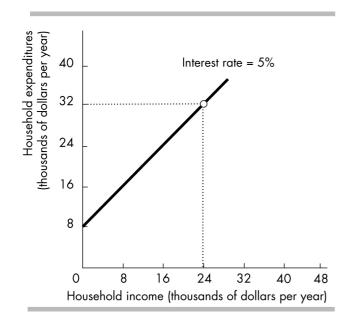
A) *F*

B) *I*

C) *G*

D) H

Answer: D



491) In the above figure, the relationship between income and expenditures is

A) negative.

B) positive.

C) random.

D) independent.

491)

- 492) The relationship in the above figure suggests that when the interest rate is 5 percent,
 - A) an increase in income will be associated with a decrease in expenditures.
 - B) a decrease in income will be associated with a decrease in expenditures.
 - C) a decrease in income will be associated with an increase in expenditures.
 - D) there is no relationship between expenditures and income.

Answer: B

493) If variables x and y move up and down together, they are

A) trend related.

B) unrelated.

C) negative related.

D) positively related.

492)

493)

494)

495)

Answer: D

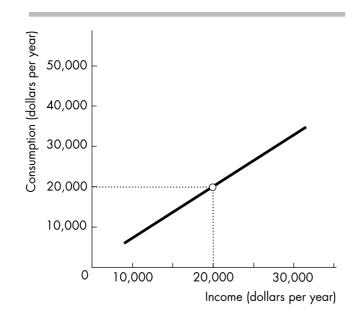
494) The term "direct relationship" means the same as

A) correlation.

C) positive relationship.

Answer: C

- B) negative relationship.
- D) trend.



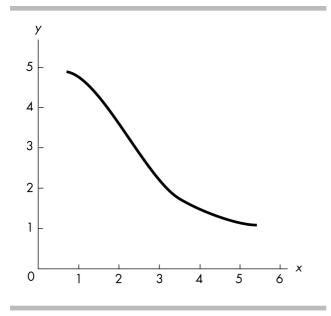
495) The relationship between income and consumption illustrated in the figure above is

A) positive and linear.

B) negative and nonlinear.

C) negative and linear.

D) positive and nonlinear.



496)	The figure above shows				496)
	A) a time-series relationship.		B) a negative relat	ionship.	
	C) a positive relationship.		D) no relationship	between the variables.	
	Answer: B				
497)	The relationship between two va	ariables, x and y, i	s a vertical line. Thus <i>x</i>	and y are	497)
	A) negatively correlated.		B) positively corre	lated.	
	C) falsely related.		D) not related.		
	Answer: D				
498)	The slope of a line equals the				498)
	A) change in the variable mea measured along the x-axis		-axis divided by the ch	ange in the variable	
	B) change in the variable mea measured along the y-axis	•	-axis multiplied by the	change in the variable	
	C) change in the variable mea measured along the y-axis	_	-axis divided by the ch	ange in the variable	
	D) change in the variable mea along the y-axis.		-axis minus the change	in the variable measured	
	Answer: A				
499)	"The change in the value of the v	variable measured	on the y-axis divided	by the change in the value	499)
	of the variable measured on the	x-axis" is the defi	nition of		
	A) slope. B) a	a curve.	C) a graph.	D) a relation.	

500) The slope of a curve between Y (measure	ed on the vertical axis) and X (measured on the horizontal	500)
axis) is		
A) zero.		
B) the percentage change in Y divided		
C) the change in Y divided by the initi		
D) the change in Y divided by the char	nge in X.	
Answer: D		
501) Suppose that as the price of concert ticke	ets increases, the number of concerts you wish to attend	501)
	nship between these two variables would have	·
A) a positive slope.	B) a negative slope.	
C) a zero slope.	D) NONE OF THE ABOVE IS correct.	
Answer: B		
502) The slope of a line		502)
	the value of the y-axis variable relative to the change in	-
the value of the x-axis variable.	·	
B) is always a constant.		
C) can never equal zero.		
D) measures the value of the y-axis va	ariable relative to the value of the x -axis variable.	
Answer: A		
503) The slope of a positive relationship is		503)
A) positive.		, <u></u>
B) positive to the right of the maximum	m point and negative to the left.	
C) constant as long as the relationship	is nonlinear.	
D) undefined.		
Answer: A		
504) In which of the following cases is the slo	pe of a line positive?	504)
A) As x increases, y remains the same		,
B) As x increases, y decreases.		
C) As x increases, y equals a positive r	number.	
D) As x increases, y increases.		
Answer: D		
505) If a large change in the variable measure	d on the x-axis is associated with a small change of the	505)
variable measured on the y-axis, the line	=	
A) upward-sloping; small		
B) downward-sloping; small		
C) downward-sloping; large		
D) either downward or upward-slopi	ng; small	
Answer: D		
506) Suppose we are considering the relations	ship between two variables y and x . y is measured on the	506)
	and the relationship between then is a line. Suppose that	
	s than 1. This slope means that a change in x is associated	
with		
A) no change in <i>y.</i>	B) a smaller change in y.	
C) a bigger change in y.	D) an equal change in y.	

507) Suppose	we are considerin	g the relationship be	etween two variables y and x .	y is measured on the	507)
			e relationship between then is	s a line. Suppose that	·
		I to 1. This slope me			
	-	iated with a bigger o			
	•	iated with an equal o	9		
•	J	iated with a smaller	9		
-	· ·	iated with no change	e in <i>y.</i>		
Answer:	В				
508) Suppose	we are considerin	a the relationship be	etween two variables y and x .	v is measured on the	508)
		•	e relationship between then is	•	
•		ter than 1. This slope	•	• • • • • • • • • • • • • • • • • • • •	
•	_	iated with an equal o			
B) a ch	nange in x is assoc	iated with a smaller	change in <i>y</i> .		
	-	iated with no change	=		
D) a ch	nange in x is assoc	iated with a bigger c	hange in <i>y</i> .		
Answer:	D				
509) In which	of the following c	ases is the slone of a	line positive and less than in	finity?	509)
	_		ncreases, the variable measure		
-	change.				
	•	ured on the y-axis in	ncreases, the variable measure	ed on the x-axis	
•	reases.	•			
C) As	the variable measi	ared on the x -axis d	ecreases, the variable measur	red on the y-axis	
dec	reases.				
-		ared on the x -axis in	ncreases, the variable measure	ed on the y-axis	
	reases.				
Answer:	С				
510) In a grap	h, a line has a neg	ative slope if			510)
	line is horizontal.	ative slope ii	B) the line rises from	right to left.	
	line is vertical.		D) the line rises from	_	
Answer:			•	3	
			red on the x-axis increases, t	he variable measured	511)
-		e curve has a		D) magativa	
A) tan		B) positive	C) hypothetical	D) negative	
Answer:	D				
512) If the slop	oe of the relationsl	nip between savings	and interest rates is 0.5, then		512)
A) sav	ings and interest r	ates have an inverse	relationship.		·
B) sav	ings and interest r	ates have no relatior	nship.		
	_	ates have a positive			
D) sav	ings and interest r	ates have a negative	relationship.		
Answer:	С				
513) If an incr	ease in <i>x</i> (the yari:	able on the borizont:	al axis) from 6 to 8 units caus	es a decrease in v (the	513)
•		s) from 4 to 3 units, t	-	os a acorcase in y (tile	
A) -2.	voi tioui unit	B) 2.	C) -1/2.	D) 1/2.	
Answer:	С	,	•	•	

Х	у
0	0
2	6
4	12
6	18
8	24
10	30

514) In the table above, y is measured along the y-axis and x along the x-axis. The slope of the relationship between x = 0 and x = 2 is

514)

A) 3.

B) 6.

- C) -6.
- D) 2.

Answer: A

X	у
10	50
9	70
8	100
7	130
6	170
5	220

515) In the table above, y is measured along the y-axis and x along the x-axis. What is the value of the slope between the x = 8 and x = 6?

515)

A) 70

B) -35

- C) -0.057
- D) -19.28

Answer: B

Point	X	Y
а	100	50
b	200	75
С	300	100
d	400	100
е	500	75
f	600	50

516) In the table above,	Y is measured along the y-axis	s and X along the x -axis.	The slope between
points a and b is			

516)

- A) -0.25.
- B) 0.25.
- C) 4.

D) 25.

Answer: B

517)	In the table above,	Y is measured a	along the y-axis	and Xalon	g the x-axis.	The slope be	tween
	points c and d is						

517)

A) 0.

- B) 0.25.
- C) -4.

D) 100.

- A) -25.
- B) 4.

- C) -0.25.
- D) 0.25.

Answer: C

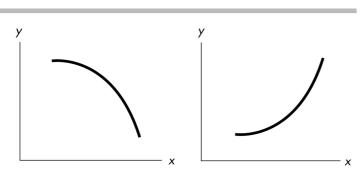


Figure A

Figure B

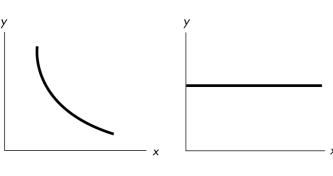


Figure C

Figure D

519) In the above figure, if there is a negative relationship between the variables *x* and *y*, which of the graphs above can be used to indicate this?



A) Figure A

B) Figure B

C) Figure C

D) both Figure A and Figure C

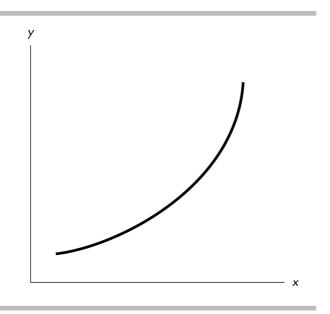
Answer: D

520) In the above figure, which of the graphs demonstrates a curve with a decreasing slope, that is, a slope getting smaller in magnitude as *x* increases?

520)

- A) Figure A
- B) Figure B
- C) Figure C
- D) Figure D

Answer: C

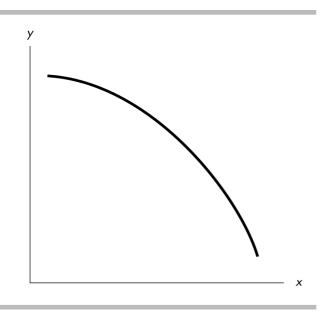


521) In the above figure, the curve has a slope that is _____

- A) positive and becoming smaller in magnitude
- B) positive and becoming larger in magnitude
- C) negative and becoming smaller in magnitude
- D) negative and becoming larger in magnitude

Answer: B

521) ___



522) In the above figure, the curve has a slope that is _____

522)

- A) positive and becoming larger in magnitude
- B) negative and becoming smaller in magnitude
- C) negative and becoming larger in magnitude
- D) positive and becoming smaller in magnitude

Answer: C

Х	у
0	4
1	5
2	8
3	13
4	20

•) In the above table, the relationship between x and y is and, with y measured on the					
vertical axis A) negati Answer: C	ive; 6	en <i>y</i> = 5 and <i>y</i> = 8 is B) positive; 5	equal to C) positive; 3	D) negative; 8		
524) The slope o	f a straight line is				524)	
A) variak	ole.	B) increasing.	C) constant.	D) decreasing.	_	
Answer: C						
525) The slope o	f a straight line is				525)	
A) alway	s equal to zero.		B) constant.		_	
C) calcul	ated as y/x at any	point.	D) always greater th	nan zero.		

526)	The slope of a straight line				526)
	A) is constantly changing				
	B) equals the angle the li			s divided by the change in the	
	value of the variable			s divided by the change in the	
	D) is always positive.	J			
	Answer: C				
527)	With y measured on the ve	rtical axis and <i>x</i> meas	sured on the horizonta	al axis, the slope of a straight	527)
	line is defined as		- 1 / 1		
	A) (change in x)/ (changeC) y/x.	e in <i>y</i>).	B) (change in <i>y</i> D) <i>x/y</i> .)/ (change in <i>x</i>).	
	Answer: B				
528)	The slope of a straight line	is 3/4. When <i>x</i> equals	20, y equals 14. When	n x equals 32, y equals	528)
	A) 23.	B) 26.	C) 9.	D) 17.	
	Answer: A				
529)	The slope of a straight line	is 3. When <i>x</i> equals 1	ر, y equals 33. When ع	c equals 11, y equals	529)
	A) 39.	B) 30.	C) 36.	D) 27.	
	Answer: C				
530)	Along a straight line, when	x equals 90, then y e	quals 30. When <i>x</i> equa	als 120, then y equals 40. The	530)
	slope of the straight line is	D) 4 (0	0) 1/0	D) 0	
	A) -3.	B) 1/3.	C) -1/3.	D) 3.	
	Answer: B				
531)	Along a straight line, the va			· · · · · · · · · · · · · · · · · · ·	531)
	A) 1.	B) infinite.	C) 0.	D) -1.	
	Answer: A				
532)	If the change in $y = -4$, and	the change in $x = 2$, t	here is		532)
	A) a negative relationshi				
	B) an independent relatiC) no relationship between		d <i>x</i> .		
	D) a positive relationship	-			
	Answer: A	c weethers y and m			
E22\	If the change in v. 10 and	the change in v 2 t	hara ia		E22)
533)	If the change in $y = 10$, and A) an independent relati	•			533)
	B) no relationship between				
	C) a negative relationshi	p between y and x.			
	D) a positive relationship	between y and x.			

Answer: D

L J 1)	The change in	20	مطاحات مدم	ala a a a a a i sa		Thursdann in
5.341	The change in	V = -/U	and the	change in	1 X = -4	Thus there is
00.,	The original	,,	arra trio	or iar igo ii i		11100 11101 0 10

- A) no relationship between y and x.
- B) a negative relationship between y and x.
- C) an independent relationship between y and x.
- D) a positive relationship between y and x.

Answer: D

X	у
0	0
1	3
2	6
3	9
4	12
5	15

535) Using the data in the table above, with *y* measured on the vertical axis, the slope of the line relating *y* to *x* is

535)

536)

534)

A) 1.

B) 3.

- C) 1/3.
- D) 6.

Answer: B

x-variable	y-variable
(on the horizontal axis)	(on the vertical axis)
10	28
15	31
20	34

536) The above table shows data on two variables. If these data were graphed, the slope of the line would be

- A) 5/3.
- B) 3.
- C) 3/5
- D) impossible to determine from the information given.

Answer: C

x-variable	y-variable
(on the horizontal axis)	(on the vertical axis)
8	14
10	18
12	22

537) The above table giv	ves data on two variables.	If these data were graphe	ed, the slope of the line would	I 537)	
be	-> -			_	

A) 1.

B) 2.

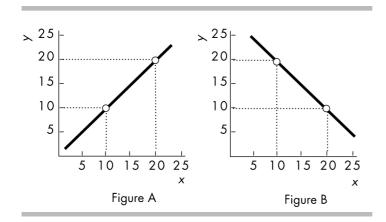
C) -2.

D) -4.

538)	The above table	gives da	ata on two variables. If t	hese data were graph	ed, their relationship would	538)
	A) be a straig			B) nonexistent		
	C) be a curve	d line.		D) show a neg	ative relationship.	
4	Answer: A					
	x-variable	<u> </u>	y-variable	7		
1	on the horizont		(on the vertical axis)			
<u> </u>	100	ar artis)	50			
+	200		125			
	300		200	_		
<u> </u>		ļ		-1		
	The above table would be	shows o	lata on two variables. If	these data were grap	hed, the slope of the line	539)
	A) 1/2.		B) 3/4.	C) 4/3.	D) 2/3.	
	Answer: B			·		
	Quantity	Pri	ce			
	0	50)			
	8	40				
	16	30				
	24	20				
	32	10				
	36	5				
E40)	lata a da a da da t					E40)
540)	Jsing the data i		ove table, e is likely to cause an inc	crosso in quantity		540)
	·	•	tity and price are neithe		tively related	
		•	tity and price are negati		tivery related.	
			tity and price are positive	=		
	Answer: C	1		, , , , , , ,		
•	THISWELL O					
541)	f we use the nu	mbers ir	n the above table to drav	v a graph, with the pr	rice on the vertical axis and the	541)
(quantity on the	horizont	al axis, the curve relatin	ng price and quantity	has a slope of	
	A) 8.0.		B) -8.0.	C) 0.8.	D) -1.25.	
4	Answer: D					

Amount spent on		
restaurant meals		
(dollars per month)		
20		
40		
60		
80		

542)	Using the data in the above table, if income is on the <i>x</i> -axis and the amount spent on restaurant meals is on the <i>y</i> -axis, the graph of the two variables would be A) horizontal. B) upward sloping.					542)	
	C) vertic			B) upward sloping D) downward slop			
	Answer: B			,	3		
543)	•			is on the x-axis and the amought line graph equals	unt spent on restaurant	543)	
	A) 0.2.		B) 0.5.	C) 2.5.	D) 0.4.		
	Answer: D)					
	Х	у					
	100	500					
	200	300					
	300	100					
	400	-100					
544)	Based on tl	ne informatio	on in the table above	, what is the relationship betv	veen x and y?	544)	
	A) inver	se		B) direct			
	C) posit	ive		D) No relationship	exists between x and y.		
	Answer: A	1					
545)	545) Using the information in the table above, what is the value of the slope between x and y?						
	A) 5 B) -2 C) 2 D) -0.5						



546) In the above, which figure shows a linear relationship?

546)

- A) Figure A
- C) both Figure A and Figure B

- B) Figure B
- D) neither Figure A nor Figure B

Answer: C

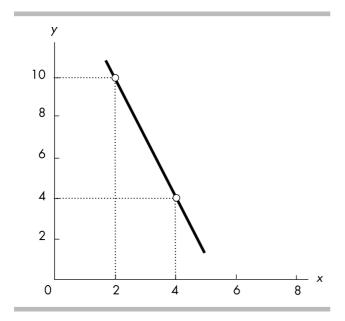
547) In the above, which figure shows a line with a slope of 1.0?

547)

- A) Figure A
- C) both Figure A and Figure B

- B) Figure B
- D) neither Figure A nor Figure B

Answer: A



548) The slope of the line shown in the above figure is

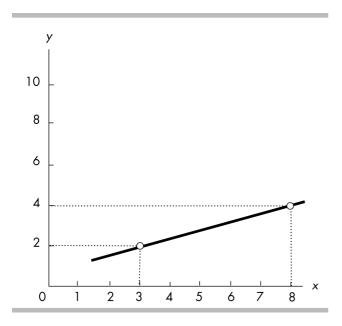
A) -3.

B) -1.

C) -5.

D) -1/3.

548)



549) The slope of the line shown in the above figure is

A) 2/3.

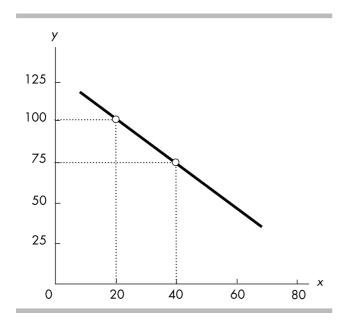
B) 5/2.

C) 5.

D) 2/5.

549) _____

Answer: D



550) The slope of the line shown in the above figure is

A) -1 1/3.

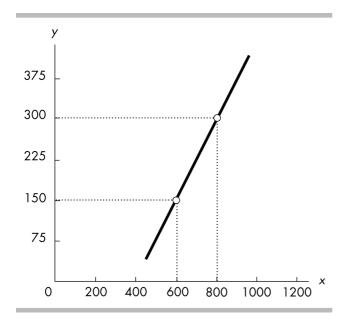
Answer: B

B) -1.25.

C) -0.80.

D) -1 2/3.

550) ___

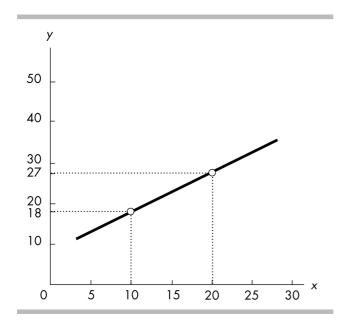


551) The slope of the line shown in the above figure is

A) 0.75. B) 2.

Answer: A

D) 0.25. C) 1 1/3.



552) The slope of the line shown in the above figure is A) 1.11. B) 1.5.

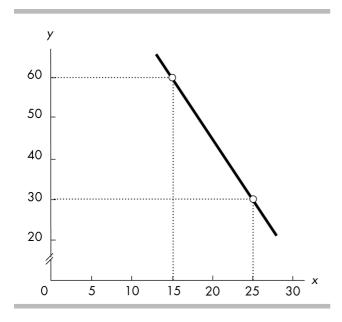
Answer: D

C) 2.

D) 0.90.

552)

551)



553) The slope of the line in the above figure is

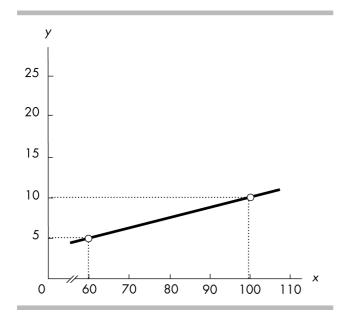
A) -3.

B) -1/3.

C) -4.

D) -1/2.

Answer: A



554) The slope of the line in the above figure is

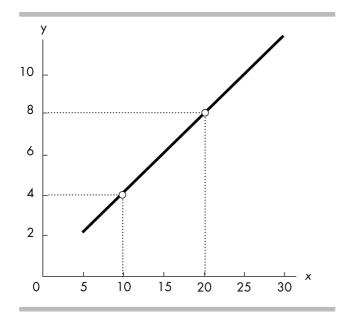
A) 0.10. Answer: C B) 0.05.

C) 0.125.

D) 8.

554) ___

553)



555)

555) The slope of the line in the above figure is

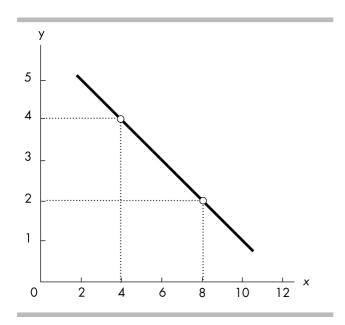
A)
$$5/2 = 2.5$$
.

B)
$$2/5 = 0.4$$
.

C)
$$-2/5 = -0.4$$
.

D)
$$-5/2 = -2.5$$
.

Answer: B



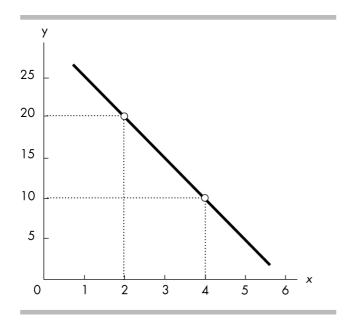
556)

556) The slope of the line in the above figure is

A) 2. Answer: D B) 1/2 = 0.5.

C) -2.

D) -1/2 = -0.5.



557) The slope of the line in the above figure is

A) 5.

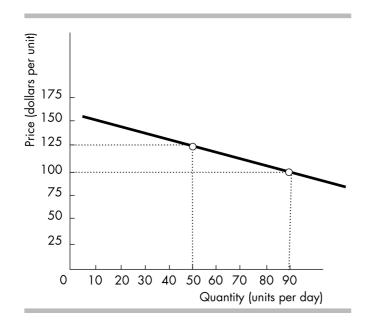
B) -5.

C) -10.

D) 10.

557)

Answer: B



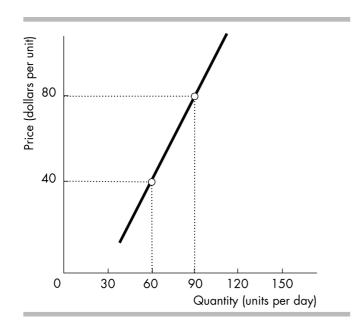
558) The slope of the line shown in the above figure is

A) 5/8. Answer: B B) -0.625.

C) -1 3/8.

D) -1 2/3.

558)



559) The slope of the line shown in the above figure is

A) 11/3.

B) 3/4.

C) 13/4.

D) 2/3.

559) _____

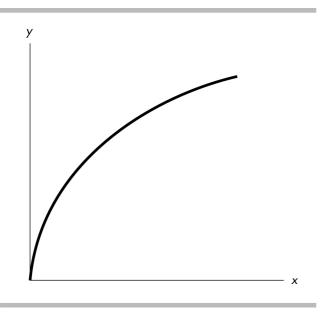
Answer: A

560) On a graph, an upward-sloping curve that is flatter as you move away from the origin indicates a

560)

- A) negative relationship with an increasing slope.
- B) negative relationship with a decreasing slope.
- C) positive relationship with a decreasing slope.
- D) positive relationship with an increasing slope.

Answer: C



measured along the x-axis.

measured along the y-axis.

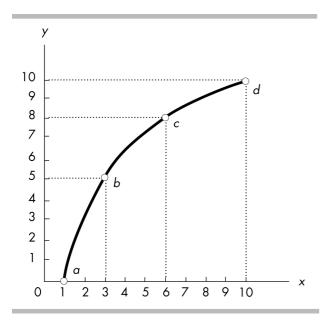
Answer: A

D) the inverse of the straight-line method.

561) In the above figure, the curve's slope is		561)	
A) negative and is becoming less steep.	B) negative and is becoming steeper.		
C) positive and is becoming less steep.	D) positive and is becoming steeper.		
Answer: C			
and quantity is	nd the quantity of apples demanded is on the is on the line describing the relationship between price	562)	
A) price divided by quantity.B) the change in price divided by quantity.	nge in quantity.		
C) the change in quantity divided by the change in price.			
D) the change in price multiplied by the c	hange in quantity.		
Answer: B			
563) The formula for the slope across an arc is us	ed to approximate the slope for	563)	
 A) a negative relationship only. 	B) a curved line.		
C) a positive relationship only.	D) linear relationships only.		
Answer: B			
564) The slope of a curved line can be approxima	ited by	564)	
A) the slope across an arc from one point	on the curve to another point on the curve.		

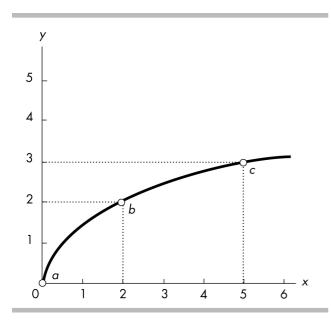
B) the average of the variable measured along the *y*-axis divided by the average of the variable

C) the average of the variable measured along the *x*-axis divided by the average of the variable



Answer: C

565) In the above figure	e, the slope across the arc b	etween c and d is		565)
A) 1/2.	B) 4/3.	C) 1.	D) 2.	
Answer: A				
566) In the above figure	e, the slope across the arc b	between b and c is		566)
A) 1.	B) 1/2.	C) 2.	D) 2/3.	
Answer: A				
567) In the above figure	e, the slope across the arc b	petween a and b is		567)
A) 5/2.	B) 3/2.	C) 2/5.	D) 1.	
Answer: A				
568) In the above figure				568)
A) between 1 ar C) 5/2.	nd 5/2.	B) greater than ! D) 1.	5/2.	
Answer: A				
	e, the relationship betweer			569)
· ·	h slope increasing as x inc			
. •	th slope increasing as x inc			
· ·	h slope decreasing as <i>x</i> inc th slope decreasing as <i>x</i> inc			
Answer: C	ar stope door dooning do x ar	51 Guses.		
570) The slope in the al	oove figure is			570)
A) negative and	•	B) positive and	increasing.	
C) positive and	_	D) negative and	•	



571) In the above figure, using the slope across an arc, the slope of the curve between points b and c is

571)

A) 3.

B) -3.

C) 1/3.

D) -1/3.

Answer: C

572) In the above figure, using the slope across an arc, the slope of the curve between points a and c is

572)

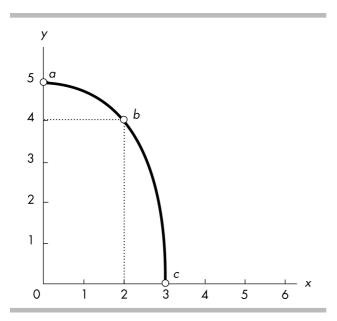
A) 5/3.

B) -5/3.

C) 3/5.

D) -3/5.

Answer: C



573) In the above figure, using the slope across an arc, the slope of the curve between points a and b is

A) -2.

B) 1/2.

C) -1/2.

D) 2.

573) ____

Answer: C

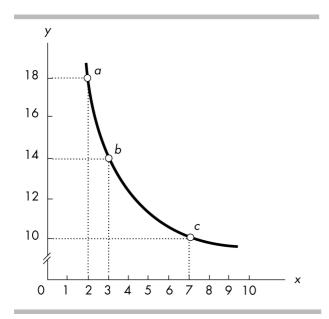
574) In the above figure, using the slope across an arc, the slope of the curve between points a and c is

574)

A) 5/3.

- B) -5/3.
- C) -3/5.
- D) 3/5.

Answer: B



575) In the above figure, the slope across the arc between a and b is

575)

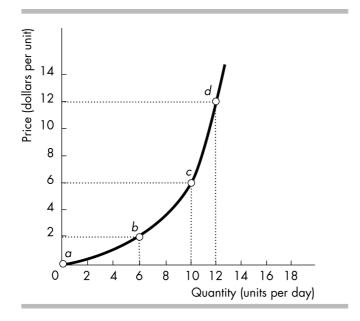
576)

A) -4.

B) 1.

- C) 1/4.
- D) -1/4.

Answer: A



576) In the above figure, the slope across the arc between b and d is

A) 6/5.

- B) 5/3.
- C) 1/2.
- D) 1/3.

Answer: B

577) In the above figure, the slope at point b

A) lies between 1 and 2.

C) equals 1.

B) lies between 1/3 and 1.

D) exceeds 2.

Answer: B

578) In the above figure, the slope across the arc between c and d is

A) 12/11.

B) 4.

C) 3.

D) 1/6.

Answer: C

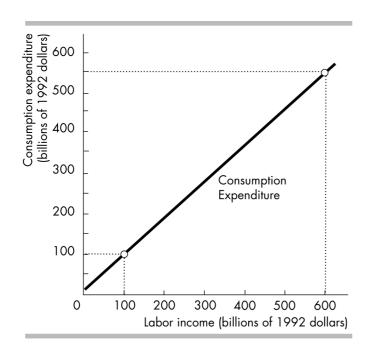
579) In the above figure, the slope across the arc between a and b is

A) 1/3.

B) 3.

D) 3/5.

Answer: A



580) In the above figure,

580)

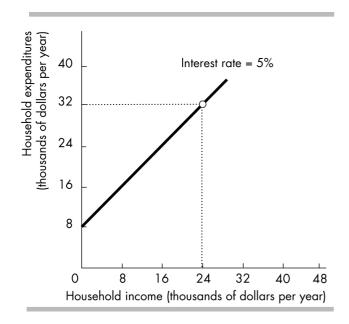
577)

578)

579)

- A) consumption expenditures are a linear function of labor income.
- B) consumption expenditures are positively related to labor income.
- C) the slope of the function depicted is 0.9.
- D) All of the above answers are correct.

Answer: D



581) The slope of the line in the above figure is

A) -4.

B) 1.0.

C) -1.0.

D) -2.5.

581) ____

Answer: B

582) The slope of a negative relationship is

582)

583)

- A) undefined.
- B) constant as long as the relationship is nonlinear.
- C) negative
- D) positive to the right of the maximum point and negative to the left.

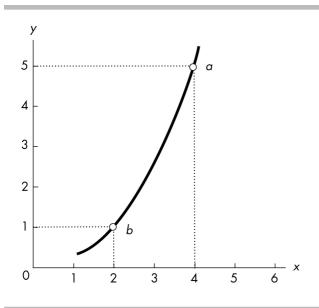
Answer: C

583) A linear relationship

- A) never has a constant slope.
- C) always slopes up to the right.

Answer: D

- B) always has a maximum.
- D) always has a constant slope.



584) The relationship between x and y in the above figure is

584)

585)

- A) negative with a decreasing slope.
- B) positive with an increasing slope.
- C) positive with a decreasing slope.
- D) negative with an increasing slope.

Answer: B

585) In the above figure, the slope across the arc between points a and b equals

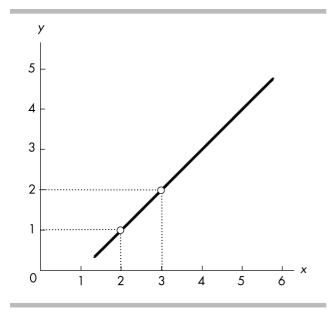
B) 4.

A) 2.

C) 1.

D) 5.

Answer: A



586) In the above figure, between x = 2 and x = 3, what is the slope of the line?

586)

A) 1

B) -1

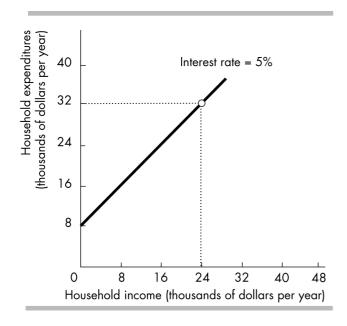
C) 3

D) 2

Answer: A

587) In the above figure, how does the slope of the line between $x = 4$ and $x = 5$ compare with the slope			587)	
	between $x = 2$ and $x = 3$?			
	A) The slope is greater between $x = 2$ and $x = 3$.			
	B) The slope is the same.			
	C) The slope is not comparable.D) The slope is greater between x = 4 and x = 5.			
	Answer: B			
588)	Ceteris paribus when graphing a relationship refers to		588)	
	A) changing the origin of the graph.	B) rescaling the coordinates.		
	C) holding constant all but two variables.	D) letting all the variables change at once.		
	Answer: C			
E0U/	In avaluating a relationship between y and y cataris n	aribus maans ather variables	589)	
309)	In evaluating a relationship between <i>x</i> and <i>y</i> , ceteris parts A) move in opposite directions to <i>x</i> and <i>y</i> .	B) move with x and y.	309)	
	C) are not relevant to x and y.	D) are not changing while x and y change.		
	Answer: D	b) are not changing without and y change.		
	, wiswer. B			
590)	On a graph showing the relationship between x and y	, the <i>ceteris paribus</i> condition implies that	590)	
	A) the value of x is held constant.			
	B) other variables not shown are held constant.			
	C) the value of y is held constant.			
	D) no other variables are related to x and y.			
	Answer: B			
591)	Assume that the quantity consumed of pizza is depen	dent on three factors: the price of a pizza, the	591)	
	income of pizza purchasers, and consumers' taste for	pizza. When graphing the relationship		
	between the price of a pizza and the quantity of pizza	consumed		
	 A) the price of pizza and quantity consumed of piz change. 	za are the only variables that are allowed to		
	B) the price of a pizza and the income of pizza conto to change.	sumers are the only variables that are allowed		
	C) consumers' taste for pizza and the income of piz	za purchasers are the only variables that are		
	allowed to change.			
	D) None of the above answers are correct.			
	Answer: A			
592)	To graph a relationship among several variables, we h	nold all but variable(s) constant and	592)	
	use the assumption.		,	
	A) one; scarcity	B) one; ceteris paribus		
	C) two; ceteris paribus	D) three; marginal benefit		
	Answer: C			
503)	If consumption expenditures are positively related to	non-lahor income then if non-lahor income	593)	
	were higher than that corresponding to the function in		373)	
	A) consumption expenditures would be the same a	-		
	above.	-		
	B) consumption expenditure would be higher at ar	y level of labor income than depicted above.		
	C) consumption expenditure would be lower at any	•		
	D) We cannot say how the function depicted above	would be affected.		

Answer: B



- 594) In the above figure, while moving along the line showing the relationship between household income and expenditure,
- 594)

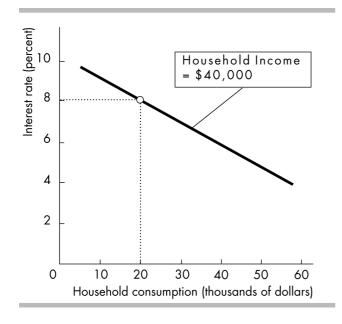
- A) the interest rate is held constant.
- B) household expenditures are held constant.
- C) household income is held constant.
- D) no variable is held constant.

Answer: A

- 595) In the above figure, if the interest rate is negatively related to household expenditures for any given

 [10] Level of household income, an increase in the interest rate will
 - A) shift the line vertically downward.
- B) shift the line vertically upward.
- C) cause no change in the line's position.
- D) make the line negatively sloped.

Answer: A



A) shift the line rightward.

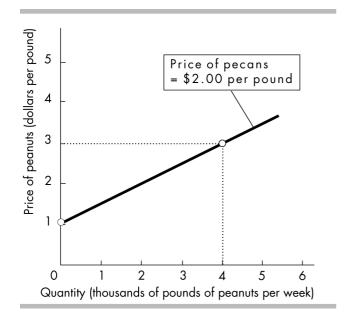
Answer: A

C) cause a movement along the line.

596)	The slope of the line in th	e above figure is			596)	
	A) independent.	B) negative.	C) positive.	D) direct.		
	Answer: B					
597)	In the above figure, wher consumption is	n the interest rate is 8 perc	ent and household inc	come is \$40,000, household	597)	
	A) \$35.000.	B) \$60,000.	C) \$0.	D) \$20,000.		
	Answer: D					
598)	The relationship in the al	oove figure indicates that			598)	
	B) a decrease in the in	hold income will lead hou serest rate leads to a decre hold consumption leads t	ase in household inco	me.		
	Answer: D					
599)	Household consumption	•		•	599)	
	A) household consumpC) no variable is held		B) interest rates a D) household inco	re held constant. ome is held constant.		
	Answer: D		,			
600)	In the above figure, if hor related to the interest rate		•	usehold income as well as	600)	-

B) make the line positively sloped.

D) shift the line leftward.



- 601) The above figure shows how many pounds of peanuts farmers are willing to sell at different prices per pound of peanuts. If the price of a pound of peanuts is \$1 and the price of a pound of pecans is \$2, peanut farmers are willing to sell
 - A) 1000 pounds of peanuts.

B) no peanuts.

C) 2000 pounds of peanuts.

D) 4000 pounds of peanuts.

Answer: B

602) In the above figure, while drawing the line showing the relationship between the price of a pound of peanuts and the quantity sold, the

602)

601)

- A) price of a pound of pecans is held constant.
- B) quantity of peanuts that farmers supply is constant.
- C) price of a pound of peanuts is held constant.
- D) Both answers A and B are true.

Answer: A

603) In the figure above, suppose the price of a pound of pecans is negatively related to the quantity of peanuts that farmers are willing to supply. If the price of pecans increases

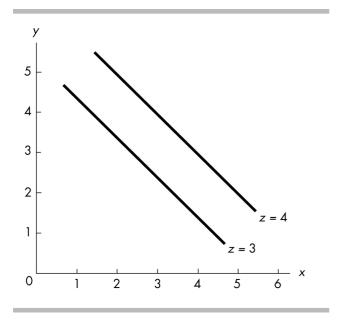
603)

- A) the curve will shift rightward.
- B) the curve will be unaffected.

C) the curve will shift leftward.

D) there is a movement along the curve.

Answer: C



604) In the above figure, x is

604)

- A) positively related to both y and z.
- B) negatively related to both y and z.
- C) negatively related to y and positively related to z.
- D) positively related to y and negatively related to z.

Answer: C

605) In the figure above, ceteris paribus, an increase in x is associated with

605)

A) a decrease in y.

B) a decrease in z.

C) an increase in y.

D) None of the above answers is correct.

Answer: C

606) In the figure above, an increase in z leads to a

606)

- A) shift rightward in the line showing the relationship between x and y.
- B) movement up along one of the lines showing the relationship between x and y.
- C) movement down along one of the lines showing the relationship between x and y.
- D) shift leftward in the line showing the relationship between x and y.

Answer: A

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

607) Why do economists use graphs?

Answer: Graphs help economists, and others, to visualize the relationships between economic variables. Graphs that plot variables together help economists understand if the variables are related and how they are related. Graphs also help provide a visual picture of economic models that link different variables. Indeed, many other disciplines use such visual models. For example, architects work with blueprints (their model) and the blueprints represent every detail of a building. Economists' models do not reflect of every detail of the real world, but the graphs that they use nonetheless are valuable because they help clarify the linkages between the variables.

608) What are three main kinds of graphs?

Answer: The three main types of graphs are scatter diagram, time-series graph, and cross-section diagram.

609) What kind of information is conveyed in a time-series graph?

Answer: A time series graph reveals four types of information. First, it shows the actual value of the variable(s) at each point in time. Second, it shows whether the variable(s) is rising or falling as time passes. Third, it shows the speed with which the variable(s) is changing. Finally, it shows the presence—or absence—of a trend.

610) What are the two different types of relationships that variables can have? Explain each. What do these relationships look like when they are graphed?

Answer: Variables can have two relationships: positive (or direct) and negative (or inverse). A positive relationship occurs when the variables move in the same direction, so that when one increases, the other also increases. A negative relationship occurs when the variables move in the opposite direction, so that when one increases, the other decreases. When a positive relationship is graphed, the line slopes upward to the right. When a negative relationship is graphed, the line slopes downward to the right.

611) What is the difference between a positive and a negative relationship?

Answer: Two variables are positively related when an increase (decrease) in one is associated with an increase (decrease) in the other. In this case, the variables move together, in the same direction. Two variables are negatively related when an increase (decrease) in one is associated with a decrease (increase) in the other. In this case, the variables move in the opposite direction.

612) A graph of two variables is a vertical line. What is the interpretation of this result?

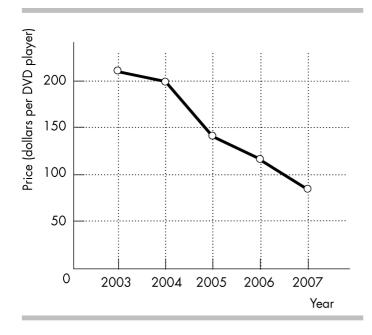
Answer: When the graph of two variables is a vertical line, the variables are not related because, with this graph, whenever the variable measured along the vertical axis changes, the variable measured along the horizontal axis does not change.

613) What does the slope of a straight line equal? How is the slope of a curved line calculated?

Answer: The slope of a straight line is calculated between two points on the line. Between the two points on the line, the slope equals the change in the value of the variable measured on the vertical axis (the *y*-axis) divided by the change in the value of the variable measured on the horizontal axis (the *x*-axis). The slope of a curved line is calculated at a point on the line. At that point on the curved line, draw a straight line that touches the curved line at only that point. Then, calculate the slope of the straight line. The slope of the curved line at that point equals the slope of the straight line.

614) "It is impossible to represent a three variable relationship in a two-dimensional graph." Is this statement true or false? Explain your answer.

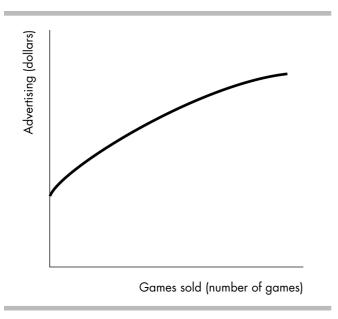
Answer: The statement is false because it is possible to represent a three variable relationship in a two dimensional graph. To do so, start by focusing on two of the variables. Assume that the third variable does not change (the *ceteris paribus* assumption) and then graph the relationship between the two variables. The graph shows how these two variables are related when the third variable does not change. When the third variable does change, then the entire relationship between the two graphed variables changes. In other words, the line showing the relationship between the two graphed variables shifts so that it becomes an entirely new line. The shift in the line shows how the third variable influences the other two.



- 615) The figure above shows the price of a DVD player from 2003 to 2007.
 - a) What type of graph is illustrated above?
 - b) What is the trend in the price of a DVD player?

Answer: a) The graph is a time-series graph because it plots time along the horizontal axis and the price of a DVE player along the vertical axis.

b) The trend in the price of a DVD player is negative, that is, the price of a DVD player has generally dec from one year to the next.



616) The figure above shows how the sales of the video game "Tomb Raider—Lara Retires" change when the advertising spent on the game changes. Is the relationship between advertising and the number of games sold positive, negative, or neither? Explain your answer.

Answer: The figure shows that there is a positive relationship between advertising and the number of video games sold. The relationship is positive because the two variables move together: If advertising increases, so, too, does the number of games sold.

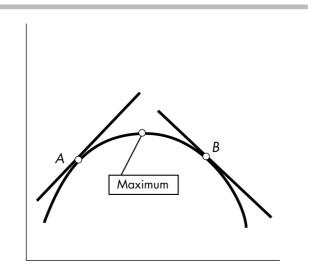


617) The figure above shows how the relationship between the number of hours per week a high school student spends on the web and the student's SAT score. Is the relationship between hours on the web and the SAT score positive, negative, neither? Explain your answer.

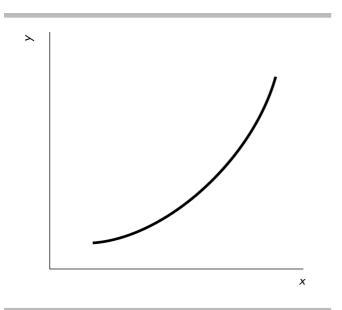
Answer: The figure shows that there is a negative relationship between hours on the web and the student's SAT score. The relationship is negative because the two variables move in opposite directions: If hours on the web increase, the SAT score decreases.

618) A graph has a point that is either a maximum or a minimum. To the left of the point, the slope of relationship is positive. To the right of the point, the slope is negative. Is the point a maximum point or a minimum point? Be sure to draw a figure that supports your answer.

Answer:



The point is a maximum point. Examine the figure above. The slope of a curved line at any point equals the of a straight line that touches the curved line at only that one point. Thus to the left of the maximum point, point A. The slope of the straight line that touches the curved line at only point A is positive, so the slope of relationship is positive. Similarly, take point B to the right of the maximum point. As the straight line show the slope of the relationship at point B is negative. Indeed, whenever there is a maximum point, the slope of the relationship to the left of the maximum is positive and the slope to the right is negative.



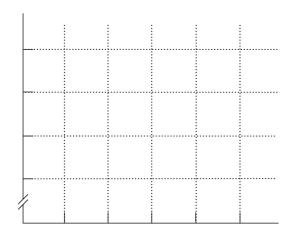
619) In the figure above, what can you deduce about the slope of the curve?

Answer: The slope is positive and increasing in size as we move rightward along the curve.

620) If two points on a line are x = 2, y = 5 and x = 7, y = 10, what is the slope of this line?

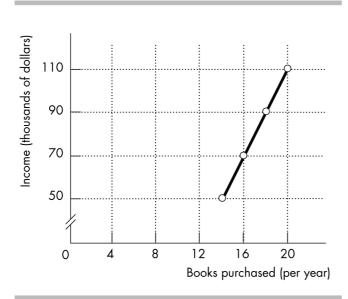
Answer: The slope equals the change in the y-variable divided by the change in the x-variable. So, the slope equals (10 - 5)/(7 - 2) = (5)/(5) = 1.00.

Katie's income	Katie's purchases
(dollars per year)	(books per year)
50,000	14
70,000	16
90,000	18
110,000	20



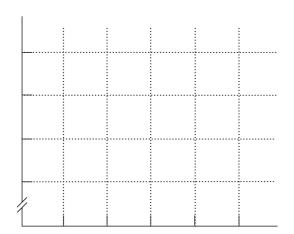
- 621) The table above shows how the number of books Katie buys each year depends on her income.
 - a) What kind of relationship exists between Katie's income and the number of books she purchases?
 - b) Plot the relationship between Katie's income and the number of books she purchases in the above figure. Me income along the vertical axis and the number of books along the horizontal axis. Be sure to label the axes.
 - c) What is the slope of the relationship between \$50,000 and \$70,000 of income?
 - d) What is the slope of the relationship between \$90,000 and \$110,000 of income?
 - e) Comment on the similarity or dissimilarity of your answers to parts (c) and (d).

Answer: a) There is a positive relationship. When Katie's income increases, so too does her purchase of books.



- b) The relationship is plotted in the figure above.
- c) The slope equals the change in the value of the variable measured on the vertical axis, income, divided change in the value of the variable measured along the horizontal axis, the number of books. Between \$50 and \$70,000 of income, the number of books purchased increases from 14 to 16. Hence income increases by \$20,000 and the number of books increases by 2, so the slope equals \$20,000/2 = 10,000.
- d) As with the previous answer, the slope equals the change in income divided by the change in books. Between \$90,000 and \$110,000 of income, the number of books purchased increases from 18 to 20. Hence it increases by \$20,000 and the number of books increases by 2, so the slope equals \$20,000/2 = 10,000.
- e) The slopes in parts (c) and (d) are equal. But, they *must* be equal because the relationship between Kat income and the number of books she purchases is linear. For a linear relationship, the slope is the same regardless of where it is measured.

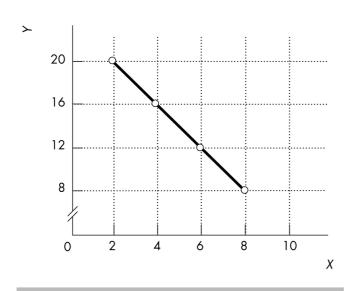
X	Y
2	20
4	16
6	12
8	8



622) Graph the data in the table above in the figure. Label the axes.

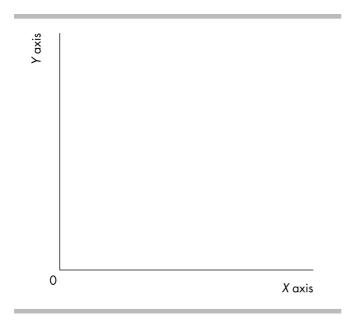
- a) Is the relationship between *X* and *Y* positive or negative?
- b) What is the slope when X = 4?
- c) What is the slope when X = 8?

Answer:



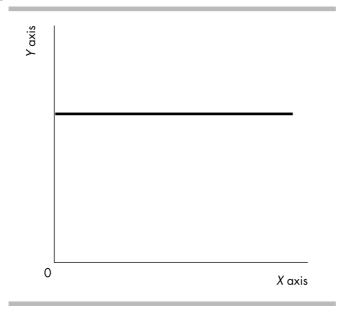
The figure labels the axes and graphs the relationship.

- a) The relationship between *X* and *Y* is negative.
- b) The slope equals -2.
- c) The slope equals -2.

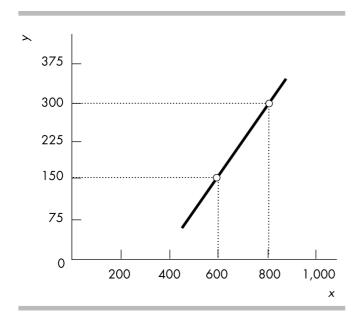


623) In the above diagram, draw a straight line with a slope of zero.

Answer:

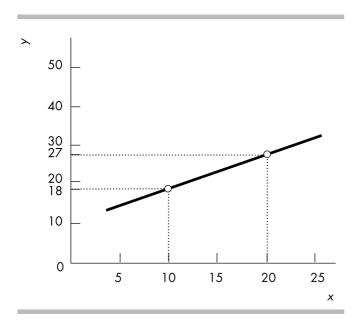


A horizontal line has a slope of zero. The figure above shows a horizontal line with a slope of zero.



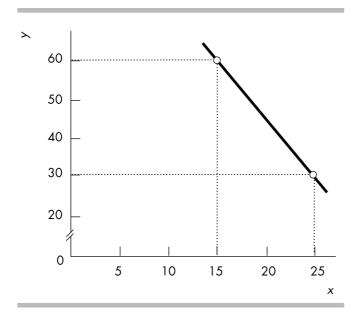
624) What does the slope of the line shown in the above figure equal?

Answer: The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (150 - 300)/(600 - 800) = 0.75.



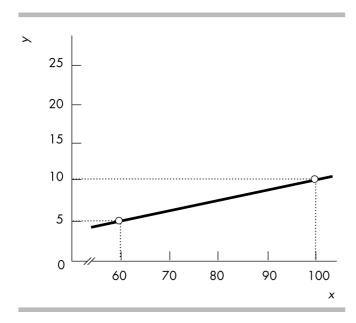
625) What does the slope of the line shown in the above figure equal?

Answer: The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (18 - 27)/(10 - 20) = 0.90.



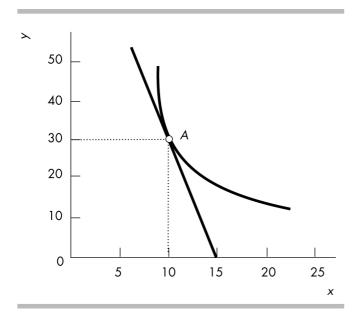
626) What does the slope of the line shown in the above figure equal?

Answer: The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (30 - 60)/(25 - 15) = -3.0.



627) What does the slope of the line shown in the above figure equal?

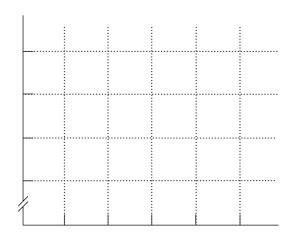
Answer: The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (5 - 10)/(60 - 100) = 0.125.



628) What does the slope of the curved line at point A shown in the above figure equal?

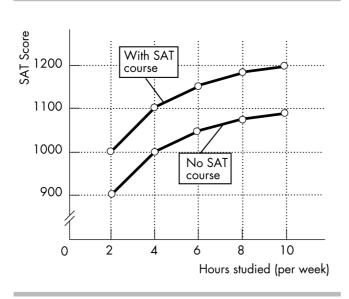
Answer: The slope of a curved line equals the slope of a straight line that touches the curved line at only that point. And, the slope of a straight line equals the change in variable on the y-axis divided by the change in the variable on the x-axis. Measure the slope of the straight line from point A to where the line crosses the x-axis, at 15. Thus the straight line has a slope of (30 - 0)/(10 - 15) = -6. Therefore the curve line at point A also has a slope equal to -6.

Hours studies (per week)	SAT scores
2	900
4	1000
6	1050
8	1075
10	1090



- 629) Jamie is preparing to take his SAT tests. The table above shows how Jamie's score depends on the number of hou week Jamie studies.
 - a) Plot the relationship in the figure, putting the hours studied on the horizontal axis.
 - b) Is the relationship you plotted positive or negative?
 - c) What happens to the slope of the relationship as hours studied increase?
 - d) Suppose Jamie can enroll in an SAT prep course and, by so doing, for every possible number of hours he stuscore will be 100 points higher. Plot the new relationship between the number of hours studied and Jamie's SAT the figure.
 - e) How many variables are involved in the figure you just completed?

Answer:



- a) The figure above plots the relationship between the number of hours Jamie studies and his SAT score.
- b) The relationship is positive: As Jamie increases the hours he studies, his SAT score increases.
- c) The relationship is nonlinear, so the slope of the relationship changes as the number of hours studied changes. In the figure, the slope of the relationship decreases in size as the number of hours studied increa
- d) The figure above also plots the relationship between the hours Jamie studies and his SAT score if Jami an SAT preparation course.
- e) There are three variables: The number of hours Jamie studies, whether or not he takes an SAT prepara course, and his SAT score.

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

630) The vertical axis of a	graph shows only positive values.	630)
Answer: True	False	
631) A scatter diagram pl	ots the value of one economic variable against time.	631)
Answer: True	False	
632) A time series graph of changes over time.	can show both the level of a variable and the speed with which the variable	632)
Answer: <a> True	False	
633) A trend is a general t	tendency for a variable to increase or decrease over time.	633)
Answer: 💇 True	False	

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634)	A cross-sectime.	tion graph	can show how economic variables for different groups of people vary over	634)
	Answer:	True 🧸	False	
635)	If the x-axis		increases while the y -axis variable decreases, the variables x and y are	635)
	Answer: 0	True	False	
636)	A graph car	nnot be use	d to show that two variables are unrelated.	636)
	Answer:	True 🧧	False	
637)	When grap Answer: •		les that are unrelated are shown by either a horizontal or a vertical line. False	637)
638)	The slope o	of a line is th	he change in the y -axis variable divided by the change in the x -axis variable.	638)
	Answer: 0	True	False	
639)	The slope o	f a straight	line increases as the numbers on the x-axis become larger.	639)
	Answer:	True 🧧	False	
640)	To calculate an arc of the	•	of a curved line, you can calculate the slope at a point on the curve or across	640)
	Answer: 0	True	False	
641)	If the chang line is 1/2.	ge in the y-a	axis variable is 4 and the change in the x -axis variable is 2, the slope of this	641)
	Answer:	True 🧧	False	
642)	If the chang line is 6/5.	ge in the y-a	axis variable is 6 and the change in the x -axis variable is 5, the slope of this	642)
	Answer: 0	True	False	
643)	To graph a assumption		o that involves more than two variables, we use the "ceteris paribus"	643)
	Answer: 0	True	False	
644)	" <i>Ceteris pari</i> must be hel		to the idea that if more than two variables are graphed, only one variable	644)
	Answer:	True ©	False	