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Name		
MULTIPLE CHOICE. Choose the one alternative that best co	mpletes the statement or answers the questi	on.
 All economic questions are about A) what to produce. C) how to satisfy all our wants. 	B) how to cope with scarcity.D) how to make money.	1) _
Answer: B		
 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. 		2) _
Answer: A		
 3) An inducement to take a particular action is called A) the marginal benefit. C) an incentive. Answer: C 	B) opportunity cost.D) the marginal cost.	3) _
 4) 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. 		4) _
 5) The most fundamental economic problem is A) scarcity. B) security. C) health. D) the fact the United States buys more goods fror Answer: A 	n foreigners than we sell to foreigners.	5) _
AIBWEL A		
 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 can D) people cannot satisfy all their wants. 	nnot.	7) _

8) Economists point out that s	5			8)	
A) the rich but not the poor.		B) both the poor and the			
C) neither the poor nor the rich. D) the poor but not the rich.		ich.			
Answer: B					
9) Scarcity requires that peop	le must			9)	
A) trade.	B) cooperate.	C) make choices.	D) compete.	·	
Answer: C					
10) All economic questions aris	10) All economic questions arise because				
A) we want more than w	<i>i</i> e can get.	B) production possibilit	es are unlimited.		
C) people are greedy.		D) people are irrational.			
Answer: A					
11) Scarcity is				11)	
	\$1.00 can of soda and two	50¢ packs of gum and has	s \$2.00 in her pocket.		
B) our inability to satisfy					
C) an economic problem	during economic recession	as but not during economi	c hooms		
Answer: B		is but not during conorm	6 600113.		
Answer. D					
12) Scarcity arises from				12)	
A) exploration.		B) limited wants and lin	nitless resources.		
C) limited resources and	l limitless wants.	D) inefficient production	1.		
Answer: C					
13) When an economist talks of	f scarcity, the economist is	referring to the		13)	
	mploy all of its resources.				
	satisfy all human wants be				
	ontinually make technolog	-	crease production.		
	onsume all that it produces).			
Answer: B					
14) Scarcity is experienced by				14)	
A) only the poor.		B) everyone.			
C) only the wealthy.		D) only producers.			
Answer: B					
15) Fundamental economic pro	blems basically arise from	1		15)	
A) the fact that society ha	as more than it needs.				
B) the unequal distributi					
C) turmoil in the stock market.					
D) our wants exceeding our scarce resources.					

16) Scarcity exists becauseA) of the inefficient choices we make.B) poor people need more food and other goods.C) our wants exceed the resources available to saD) society and people are greedy and wasteful.	tisfy them.	16)
Answer: C		
 17) Scarcity can be eliminated through 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 Answer: D 	eliminated.	17)
 18) As an economic concept, scarcity applies to A) neither time nor money. C) time but not money. Answer: D 	B) money but not time.D) both money and time.	18)
 19) Scarcity is common to all economic systems because A) unlimited due to constant technological advar B) unlimited and so are human desires and want C) limited and so are human desires and wants. D) limited, but human desires and wants are unli Answer: D 	nces. S.	19)
20) People must make choices becauseA) there are many goods available.C) most people enjoy shopping.Answer: B	B) of scarcity.D) None of the above answers is correct.	20)
 21) The problem of "scarcity" applies A) only in industrially developed countries becau B) only in economic systems that are just beginning scarce. C) only in underdeveloped countries because the countries. D) to all economic systems, regardless of their leveloped Answer: D 	ng to develop because specialized resources are re are few productive resources in these	21)
22) When a wealthy businessman is unable to buy ticke	ts to the Super Bowl, he or she experiences	22)
A) opportunity costs C) economics Answer: B	B) scarcity D) the fallacy of composition	
23) In every economic system, choices must be made be	ecause resources are and our wants are	23)
A) limited; limited C) unlimited; limited Answer: D	B) unlimited; unlimitedD) limited; unlimited	

24) The fundamental questions in economics result fromA) distribution of income.		24)
 B) an excess of production over the wants of societ C) technological progress. D) scarcity of resources relative to the wants of soci 	-	
Answer: D		
 25) Economics is best defined as A) making choices with unlimited wants but facing B) how people make money and profits in the stoc C) making choices from an unlimited supply of good D) controlling a budget for a household. 	k market.	25)
Answer: A		
 26) The study of economics A) recognizes that scarcity does not affect rich natio B) focuses mainly on individual consumers. C) arises from the fact that our wants exceed availa D) deals mainly with microeconomics. Answer: C 		26)
27) Economics is best defined as the science of choice andA) differences in needs.C) different economic systems.	l how people cope with B) differences in wants. D) scarcity.	27)
Answer: D		
28) Which of the following best defines the subject of ecoA) the study of choices that businesses make to maB) the art of making moneyC) the science that studies unemployment, inflationD) the study of choices made to cope with scarcity	ximize profit	28)
Answer: D		
 29) Economics is the study of A) the distribution of surplus goods to those in nee B) ways to reduce wants to eliminate the problem C) affluence in a morally bankrupt world. D) the choices we make because of scarcity. Answer: D 		29)
 30) Which of the following is a macroeconomic topic? A) the reasons for the rise in average prices B) whether the army should buy more tanks or mo C) the reasons for a rise in the price of orange juice D) why plumbers earn more than janitors 		30)
Answer: A		
31) The study of the choices made by individuals is part of A) normative economics.C) microeconomics.Answer: C	of the definition of B) macroeconomics. D) positive economics.	31)

 32) In part, microeconomics is concerned with A) changes in the economy's total output of goods and service B) the Federal Reserve's policy decisions. C) how a business firm decides upon the amount it produces a D) factors that explain changes in the unemployment rate over Answer: C 	and the price it sets.)
, , ,	known as 33, economics. <i>paribus</i> study.)
 34) Which of the following is an example of a microeconomic decision A) a small shoe factory deciding how much leather to purchas need B) an individual deciding how to allocate the time he or she h. C) a multinational company deciding where to relocate its word D) All of the above answers are correct. Answer: D 	e for the next quarter's production as for work and leisure)
 35) Which term <i>best</i> describes the study of the decisions of people an these decisions? A) macroeconomics B) margin C) microeconomics D) scarcity Answer: C 	al study)
 36) Which of the following questions is a topic that would be studied A) How will a lower price of digital cameras affect the quantit B) What is the current unemployment rate in the United States C) Will the current budget deficit affect the well-being of the r D) Why did production and the number of jobs shrink in 2008 Answer: B 	y of cameras sold? s? next generation?)
 37) An example of a question that might be explored in microeconom A) savings by the household sector. B) why the U.S. economy has grown more rapidly than the Jap 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 the A) effects of an increase in government spending on the nation B) effects an increase in the price of gasoline has on an individ C) factors that lead to inflation. D) factors that affect aggregate unemployment. 	-)

 39) In part, microeconomics is concerned with the study of A) national output of goods and services. B) the Federal Reserve's policies. C) the effect government regulation has on the price of a product. D) unemployment and economic growth. 	39)
Answer: C	
 40) The branch of economics that deals with the analysis of the whole economy is called A) marginal analysis. B) metroanalysis. C) microeconomics. D) macroeconomics. 	40)
Answer: D	
 41) Macroeconomics is concerned with A) economy-wide variables. B) government decision making concerning farm price supports. C) individual consumers. D) the effects on Ford Motor of a strike by the United Auto Workers. Answer: A 	41)
Allsweit, A	
 42) Macroeconomics differs from microeconomics in that: A) macroeconomics studies the behavior of government while microeconomics looks at private corporations. B) macroeconomics focuses on the national economy and the global economy. C) macroeconomics studies the decisions of individuals. D) microeconomics looks at the economy as a whole. Answer: B 	42)
 43) Which of the following is a macroeconomic decision or concept? 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 economy Answer: D 	43)
 44) Which of the following questions is a macroeconomic issue? A) What is the future growth prospect for an economy? B) What effect would a cure for Mad Cow Disease have on the market for beef? C) How many more pounds of cookies will a consumer purchase if the price of cookies decreases? D) How many workers should the owner of a business hire? Answer: A 	44)
 45) Which of the following is a microeconomic topic? A) The effect of the government budget deficit on inflation. B) The reasons why Kathy buys less orange juice. C) The reasons why total employment decreases. D) The reasons for a decline in average prices. 	45)

 46) Microeconomics focuses on all of the following <u>EXCEPT</u> the A) effect on inflation of increasing the money supply. B) hiring decisions made by a business. C) effect on cigarette sales of an increase in the tax on cigarettes. D) purchasing decisions made by an individual consumer. Answer: A 	46)
 47) In broad terms the difference between microeconomics and macroeconomics is that A) microeconomics studies decisions of individual people and firms and macroeconomics studies the entire national economy. B) they use different sets of tools and ideas. C) microeconomics studies the effects of government taxes on the national unemployment rate. D) macroeconomics studies the effects of government regulation and taxes on the price of individual goods and services whereas microeconomics does not. Answer: A 	47)
 48) Studying the determination of prices in individual markets is primarily a concern of A) microeconomics. B) macroeconomics. C) negative economics. D) positive economics. Answer: A 	48)
 49) The analysis of the behavior of individual decision-making units is the definition of A) positive economics. B) normative economics. C) microeconomics. D) macroeconomics. Answer: C 	49)
 50) Which of the following is a microeconomic topic? A) How rent ceilings impact the supply of apartments. B) How a tax rate increase will impact total production. C) How a trade agreement between the United States and Mexico affects both nations' unemployment rates. D) Comparing inflation rates across countries. Answer: A 	50)
 51) Which of the following questions is <u>NOT</u> a microeconomic question? A) What is Britney's opportunity cost of having another baby? B) Does the United States have a comparative advantage in information technology services? C) Can the Federal Reserve keep income growing by cutting interest rates? D) How would a tax on e-commerce affect eBay? Answer: C 	51)
 52) Which of the following is a macroeconomic issue? A) What determines the amount a firm will produce. B) How federal government budget deficits affect interest rates. C) How a rise in the price of sugar affects the market for sodas. D) The cause of a decline in the price of peanut butter. 	52)

 53) Which of the following is a macroeconomic issue? A) The hiring decisions that a business makes. B) The effect of an increase in the tax on cigarettes on cigarette sales. C) The purchasing decisions that an individual consumer makes. D) The effect of increasing the money supply on inflation. Answer: D 	53)
 54) Macroeconomic topics include A) studying what factors influence the price and quantity of automobiles. B) total, nationwide employment. C) the impact of government regulation of markets. D) studying the determination of wages and production costs in the software indu Answer: B 	54)
 55) Macroeconomics is the branch of economics that studies A) the economy as a whole. B) important, as opposed to t C) prices of individual goods. D) the way individual market Answer: A 	
 56) The fact that wants cannot be fully satisfied with available resources reflects the defi A) the big tradeoff. B) the what tradeoff. C) for whom to produce. D) scarcity. 	nition of 56)
 57) Studying the effects choices have on the individual markets within the economy is p A) incentives. B) macroeconomics. C) scarcity. D) microeconomics. 	art of 57)
 58) Economics can be defined as the social science that explains the A) choices made by households B) choices we make when we trade in markets C) choices that we make as we cope with scarcity D) choices made by politicians Answer: C 	58)
 59) Scarcity is a situation in which A) some people are poor and others are rich C) we are unable to satisfy all our wants Answer: C 	
 60) Microeconomics is the study of A) the global economy B) all aspects of scarcity C) the choices that individuals and businesses make D) the national economy Answer: C 	60)

61) When an economy produces more houses and fewer typewriters, it is answering the question.			61)	
A) "where"	B) "how"	C) "for whom"	D) "what"	
Answer: D				
62) When firms in an ecor answering the	nomy start producing more question.	e computers and fewer tele	visions, they are	62)
A) "where"		C) "what"	D) "when"	
Answer: C				
63) all the object	ts that we value and are wi	lling to pay for.		63)
A) Capital is		B) Wants are		
C) Resources are		D) Goods and servic	tes are	
Answer: D				
64) If Taco Bell decides to question.	produce more tacos and fe	ewer burritos, Taco Bell is a	answering the	64)
A) "scarcity"	B) "why"	C) "when"	D) "what"	
Answer: C				
65) When a farmer decide question.	es to raise hogs instead of c	attle, the farmer is answeri	ng the	65)
A) "for whom"	B) "why"	C) "what"	D) "how"	
Answer: C	-			
66) When a farmer decide	es to grow sugar cane instea	ad of radishes, the farmer i	s answering the	66)
A) "for whom"	B) "when"	C) "why"	D) "what"	
Answer: D				
67) When a country decid answering the	les to produce fewer bomb auestion.	ers and more public housir	ng projects, it is	67)
A) "for whom"	B) "what"	C) "how"	D) "defense"	
Answer: B				
68) When a firm decides t answering the	o produce more electric ca question.	rs and fewer gas guzzlers,	it is most directly	68)
A) "what"	B) "how"	C) "for whom"	D) "scarcity"	
Answer: A	·			
69) When a textile firm de directly answering the	ecides to produce more cot	ton fabric and less syntheti	c fabric, it is most	69)
A) "how"	B) "what"	C) "why"	D) "for whom"	
Answer: B	b) what	c) why	b) for whom	
70) LLS producers decide	to produce more compact	cars and fewer SLIVs as th	e price of gasoline rises	70)
Producers are answer	ing the question.			
A) "how"	B) "what"	C) "how many"	D) "when"	
Answer: B				

71) The question "Should A) "for whom" ques C) "where" question		" is an example of the B) "what" question. D) "how" question.		71)
Answer: B				
B) The United State C) The United State	es produces an equal amoun es produces more goods that es produces more services th of people producing goods i	n services.	ly increased over	72)
Answer: C				
73) In the United States, tA) farming has incrC) services has decAnswer: A	eased	ployed in over the la B) manufacturing has inc D) construction has incre	creased	73)
A) The economy is producing serviB) More goods areC) More services and	-	ne proportion of production th	at is devoted to	74)
Answer: C				
75) Over the last 60 yearsA) agricultural prodC) services.Answer: C		duction, the U.S. economy has B) goods. D) goods and services.	produced more	75)
A) employment in B) employment in C) employment in	agriculture has been increas	anufacturing has been increas	-	76)
A) goods; education	at the United States produc n and entertainment electronic equipment	es today is such as B) services; textbooks and D) services; trade and he	d computers	77)
	dam using few machines an	d a great deal of labor, it is an	swering the	78)
question. A) "how" Answer: A	B) "what"	C) "where"	D) "for whom"	

	ny keeps track of its invent		its competitor uses a	79)
A) "how"	il, they are both answering B) "where"	C) "for whom"	D) "what"	
Answer: A		o, to mon	2) 1111	
	produces fishing rods mostly	y by hand or using high-to	ech machinery is a	80)
question of A) why will the go C) for whom will g	-	B) how will the good D) where will the go		
Answer: B	•	, ,	·	
	mer decides to harvest lettu s answering the qu	-	instead of by migrant	81)
A) "what"	B) "for whom"	C) "scarcity"	D) "how"	
Answer: D				
82) When a farmer decide farmer is answering t	es to harvest oranges by hug	ge machines instead of by	migrant workers, the	82)
A) "why"	B) "what"	C) "scarcity"	D) "how"	
Answer: D				
· ·	es to type a brief on a comp	uter rather than use a type	ewriter, the lawyer is	83)
answering the A) "what"	question. B) "why"	C) "how"	D) "scarcity"	
Answer: C				
84) When a firm decides t	to produce computers using	robots instead of people,	it is answering the	84)
A) "scarcity"	B) "why"	C) "what"	D) "how"	
Answer: D				
	mand for its good, a firm de			85)
	skilled workers. The firm is B) "how"			
Answer: B				
	les to offer tours by having v eum is answering the		pes rather than have	86)
A) "why"	B) "scarcity"	C) "how"	D) "what"	
Answer: C				
87) Human capital is				87)
	d by individuals, but not by owledge of workers.	corporations or governm	ents.	
C) machinery that	meets or exceeds federal saf d by individuals or corpora			
Answer: B		and satisfy governm		

 88) Entrepreneurs do all of the following <u>EXCEPT</u> A) come up with new ideas about what and how B) organize labor, land, and capital. C) bear risk from business decisions. D) own all the other resources used in the product Answer: D 			88)
89) To answer the "for whom" question, we studyA) business cycles.C) the global economy.Answer: D	B) technological chang D) income differences.	e.	89)
90) The fact that people with higher incomes get to cons	sume more goods and serv	rices addresses the	90)
A) "when" B) "how" Answer: D	C) "where"	D) "for whom"	
 91) Which of the following is <u>NOT</u> a factor of production A) the effort of farmers raising cattle. B) the water used to cool a nuclear power plant. C) the management skill of a small business own D) the wages paid to workers. 			91)
 92) Which of the following are considered factors of profile I. Land II. Labor III. Capital IV. Entrepreneurship A) I and III only B) I and II only Answer: D 	oduction used to produce g C) I, II and III only	goods and services? D) I, II, III and IV	92)
 93) Factors of production include all of the following EXA) labor. B) capital. C) land. D) None of the above answers are correct because Answer: D 		on.	93)
 94) What are the four categories into which factors of pr A) land, labor, capital, and entrepreneurship B) profit, wages, rent, and interest C) entrepreneurship, profit, labor, and wages D) capital, human capital, land, and labor Answer: A 	roduction are grouped?		94)
 95) Factors of production include all of the following EX A) an wheat field that is not irrigated C) machines made in past years Answer: B 	KCEPT B) money D) entrepreneurship		95)

capital; rent entrepreneurship; profit labor, capital, money, entrepreneurshi land, labor, capital, entrepreneurship v product	97) 98) 99) 100)
land, labor, capital, entrepreneurship	р 98) 99)
land, labor, capital, entrepreneurship	р 98) 99)
	99)
e	·
'e	·
	100)
	100)
-	a 101) <u> </u>
	102)
5	103)
	money coal 100 shares of Microsoft stock an apartment building money land

104) Which factor of production earns most income in the		104)
A) entrepreneurship	B) labor	
C) capital	D) money	
Answer: B		
105) Which of the following best defines capital as a facto A) Financial assets used by businesses.	r of production?	105)
 B) The gifts of nature that businesses use to produ C) Instruments, machines, and buildings used in production 		
 D) The knowledge and skills that people obtain fro and services. 		
Answer: C		
106) Which of the following is <u>NOT</u> a factor of productior	1?	106)
A) a new computer used by a small business owned		
B) a tractor used by a wheat farmer.		
C) a share of stock issued by a firm.		
D) the time worked by elementary school teachers		
Answer: C		
107) In economics, the term "land" means		107)
A) land, mineral resources, and nature's other bou	nties	
B) land that is devoted to economic pursuits.		
C) only land that is used in agricultural productio	n.	
D) land used for agricultural and urban purposes.		
Answer: A		
108) A natural resource, such as fishing territories, is cons	idered an example of	108)
A) land only.	B) land, labor, capital and entrepreneurship.	100)
C) both land and labor.	D) only capital.	
Answer: A		
Aliswei. A		
109) The "gifts of nature" are included as part of which fa	ctor of production?	109)
A) labor	B) capital	·
C) land	D) entrepreneurship	
Answer: C		
110) Copper falls into which factor of production category	0	110)
A) land	B) labor	· · · · · · · · · · · · · · · · · · ·
C) entrepreneurship	D) capital	
Answer: A	-,	
111) An autoworker is an example of and earns		111)
A) entrepreneurship; wages.	B) capital; rent.	
C) labor; wages.	D) labor; rent.	
Answer: C		

112) Overtime worked by a JCPenney associate is consident.A) entrepreneurship; profit.C) labor; wages.	dered and earns B) human capital; interest. D) labor; profit.	112)
Answer: C	2) (a.c., p. c	
 113) The term human capital refers to A) buildings and machinery. B) entrepreneurship and risk-taking. C) labor resources used to make capital equipment D) people's knowledge and skill. Answer: D 	ent.	113)
 114) In the United States, the quality of labor has been in A) the percentage of the adult population that has decreasing. B) the percentage of the adult population that has C) the percentage of the adult population that has D) a larger percentage of the adult population has college. Answer: D 	as had 4 years or more of college has been as had some high school has been increasing. as completed high school has been decreasing.	114)
Answer. D		
115) Joy is training to become a chef. The skills she is ob increase what type of resource?A) landC) physical capitalAnswer: B	ataining from her training and education will B) human capital D) entrepreneurship	115)
116) Which of the following is <u>NOT</u> an investment in hu	uman capital?	116)
 A) a student purchases a laptop computer B) a computer science student learns how to rep C) a computer science student takes a course on D) a business student takes a seminar in using a 	air a laptop computer programming a laptop computer	
Answer: A		
 117) Which of the following is <u>NOT</u> an investment in he A) Johnny learns how to read B) a mechanic attends a training workshop on a C) a student's purchase of a personal computer D) a medical student's internship Answer: C 		117)
118) A person goes to college to become an engineer. The A) increase in entrepreneurship.C) investment in human capital.	nis is an example of an B) investment in physical capital. D) increase in labor.	118)
Answer: C		
119) Pete has just decided to go to college to learn how to made a decision that will increase the nation'sA) labor supply today.	B) human capital.	119)
C) physical capital. Answer: B	D) ALL of the above answers are correct.	

120) In economics, the term "capi	ital" refers to		120)
 A) mineral resources. 		B) buildings and equipment.	
C) consumer goods.		D) the money in one's pocket.	
Answer: B			
		machine that makes the fenders for automob	iles. 121)
The machine Jon operates is	what type of resource		
A) capital		B) labor	
C) land		D) entrepreneurship	
Answer: A			
122) Which of the following is a t	type of capital?		122)
A) low-skilled labor		B) machine	
C) acre of land		D) mineral resource	
Answer: B			
100)			100)
resources are called	orm the functions of org	ganizing, managing, and assembling the othe	r 123)
A) physical capital.		B) productive capital.	
C) entrepreneurship.		D) venture capital.	
Answer: C		<i>,</i> , , , , , , , , , , , , , , , , , ,	
124) The economic resource that	organizes the use of ot		124)
A) capital.		B) labor.	
C) entrepreneurship.		D) land.	
Answer: C			
125) Entrepreneurs directly do al	II of the following EXC	EPT	125)
A) face risks that arise fro			
B) create new ideas abou	-		
C) make business decisio	ns.		
D) decide for whom good	ls and services are proc	duced.	
Answer: D			
126) Carl who is an attornov oa	rns ¢250 an hour while	Ken, who is an auto mechanic, earns \$25 an	126)
		ample of an economy answering the	·
question.	c is most an eetry an ex		
A) "for whom"	B) "scarcity"	C) "how" D) "when"	
Answer: A	2, 000.01.9	2,	
	-	which of the following big economic question	? 127)
A) In what quantities are	-	vices produced?	
B) What goods and servic			
C) Who consumes the go		re produced?	
D) How are goods and se	rvices produced?		
Answer: C			

128)	The fact that some people of	an afford to live in beau	tiful homes while others	s are homeless, is most	128)
	directly an example of an e		-		
	A) "how"	B) "for whom"	C) "when"	D) "why"	
	Answer: B				
129)	The fact that a rock star ear	5		0 annually is most	129)
	directly an example of an e A) "for whom"	conomy answering the _ B) "when"	question. C) "why"	D) "how"	
	A) for whom Answer: A	D) WHEN	C) Wily	D) HOW	
	Answer: A				
130)	Sue, who has a law degree, hour. This situation most d	•	•	-	130)
	question.				
	A) "how"	B) "why"	C) "when"	D) "for whom"	
	Answer: D				
131)	A star athlete can afford a g	parage full of exotic cars	while other people can	only afford to take a city	131)
	bus for transportation. This	s is most directly an exan	nple of an economy ans	wering the	
	question.			D) "www.at"	
	A) "why"	B) "when"	C) "for whom"	D) "what"	
	Answer: C				
132)	One economist says that ra	ising taxes on gas would	be in the social interest	. What does this	132)
	economist mean?				
	A) Higher taxes on gas v	-			
	B) Higher taxes on gas w	-			
	 C) Raising taxes on gas v D) Raising taxes on gas v 				
	Answer: B		in groups.		
133)	In a market economy, what	people do in the pursui	t of their self-interest		133)
	A) usually forwards the				
	B) is always in conflict w				
	C) is usually in conflict vD) always forwards the s				
	Answer: A				
134)	Which of the following is \underline{N}	<u>IOT</u> part of the first big e	economic question?		134)
	A) For whom are goods	•			
	B) How are goods and so	-			
	C) Why do incentives affD) What goods and servi	5 0			
	Answer: C	ices are produced:			
135)	The question, "Should Tacc	Bell produce more taco	s or more burritos?" is a	n example of the	135)
	A) "how" question.		B) "where" question		
	C) "for whom" question.		D) "what" question.		
	Answer: D				

 136) The concept of tradeoffs concerns all of the following 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 		136)
 137) In economics we learn that A) sometimes there is such a thing as a "free lunch. B) opportunity costs are all of the possible alternat C) tradeoffs allow us to avoid the problem of oppo D) None of the above answers is correct. Answer: D 	ives given up when we make a choice.	137)
138) When a university decides to add to the football stadi it faces the	um instead of adding to the baseball stadium,	138)
A) macroeconomic question. C) "what" tradeoff. Answer: C	B) "for whom" tradeoff.D) "how" tradeoff.	
139) Congress votes for more national defense but cuts bac involves		139)
A) no tradeoff.C) a "for whom" tradeoff.Answer: D	B) a "how" tradeoff.D) a "what" tradeoff.	
Answei. D		
140) When a farmer decides to increase the amount of acress of soybeans, the farmer is facing theA) "for whom" tradeoff.C) "how" tradeoff.	eage devoted to wheat and grow fewer acres B) microeconomic question. D) "what" tradeoff.	140)
Answer: D		
141) When a photographer decides to use a digital camera photographer is facing theA) microeconomic question.C) "for whom" tradeoff.	to take shots versus using film, the B) "what" tradeoff. D) "how" tradeoff.	141)
Answer: D		
142) The "how" tradeoff occurs whenA) the government increases income taxes paid byB) a firm decides to produce refrigerators instead ofC) we answer the macroeconomic question.D) a farm uses machinery to pick oranges instead of	of dishwashers.	142)
Answer: D		
 143) When the government decides to provide tax relief for on large corporations, it is facing the A) macroeconomic question. C) "for whom" tradeoff. Answer: C 	r small businesses while placing higher taxes B) "how" tradeoff. D) "what" tradeoff.	143)

144) Because we face scarcity, every choice invol A) money C) the question "what."	ves B) giving up something for nothing. D) an opportunity cost	144)
Answer: D		
145) The term used to emphasize that making chA) opportunity cost.C) accounting cost.Answer: A	oices in the face of scarcity involves a cost is B) substitution cost. D) utility cost.	145)
 146) The loss of the highest-valued alternative d A) marginal benefit. C) entrepreneurship. Answer: B 	efines the concept of B) opportunity cost. D) scarcity.	146)
 147) When an action is chosen, the highest-value A) implicit cost. C) explicit cost. Answer: B 	ed alternative <u>NOT</u> chosen is called the B) opportunity cost. D) accounting cost.	147)
 148) Opportunity cost means the A) accounting cost minus the marginal be B) highest-valued alternative forgone. C) accounting cost minus the marginal co D) monetary costs of an activity. 		148)
Answer: B		
 149) The opportunity cost of any action is A) the monetary cost but not the time req B) the highest-valued alternative forgone C) all the possible alternatives forgone. D) the time required but not the monetary Answer: B 	2.	149)
 150) The opportunity cost of something you deci A) the lowest valued alternative you give B) the highest valued alternative you give C) all the possible alternatives that you g D) the amount of money you pay to get it 	e up to get it. e up to get it. ive up to get it.	150)
Answer: B		
 151) Opportunity cost is best defined as A) how much money is paid for somethin B) how much money is paid for somethin C) all the alternatives that are given up to D) the highest-valued alternative that is a 	ng. 9 get something.	151)
Answer: D		

 152) Which of the following statements are constrained alternative gives I. The "highest-valued alternative gives II. Wealthy economies don't experience III. Scarcity creates opportunity costs. 	en up to get something" is the opportu	nity cost.	152)
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 A) the value of the next best alternative B) the total of all other alternatives that C) how much money and time it takes D) how much money is paid for some 	at are given up in making a choice. s to consume something.		153)
Answer: A			
 154) Which of the following best describe(s) of I. An opportunity cost is the next best to do something else. II. Opportunity costs are always measu III. Opportunity costs are higher for U.S. 	alternative a person has given up whe ired in terms of dollars.	en he or she makes a c	154)
A) I only B) I and III	C) I and II	D) II and III	
Answer: A			
 155) Opportunity cost is defined as A) all the possible alternatives given u B) the highest-valued alternative give C) the amount of money spent to take D) the top two alternatives given up. 	en up.		155)
Answer: B			
 156) Opportunity cost is defined as the A) lowest-valued alternative given up B) highest-valued alternative given u C) total value of all the alternatives given u D) cost of not doing all of the things year 	p. ven up.		156)
Answer: B			
 157) The ultimate cost of any choice is A) what someone else would be willin B) the dollars expended. C) the highest-valued alternative forg D) the after-tax cost. 			157)
Answer: C			
158) Opportunity cost is measured in terms oA) both monetary value and time.C) only time.	f B) only monetary value D) either monetary valu		158)
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 <i>or</i> doing fix-up projects, depending on which you would have done otherwise. C) working <i>and</i> doing fix-up projects. D) nothing because you will enjoy the trip to Florida. 	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 70percent. What was the opportunity cost of your evening at the movies?A) 70 percentB) 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. 	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. 	163)

 164) The opportunity cost of attending college includes the cost of A) tuition, books, and the lost wages for the hours spent studying. B) the tuition but not the job at which you would otherwise have worked. C) the highest valued alternative to attending college plus the cost of tuition. D) the highest valued alternative to attending college. 		164)
Answer: C		
165) Today, Julie attended her 12:30 Economics class. If shout to lunch with friends. She had other options; she opportunity cost of going to class is theA) income, pleasure, and sleep she gave up.C) lunch she gave up.		165)
Answer: C		
 166) Joe likes to sleep late in the mornings and play tennis 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 given up D) an hour of tennis given up. 		166)
Answer: B		
 167) By choosing to come to class, you know you are givin so, you are applying the concept of A) the <i>post hoc</i> fallacy. C) involuntary exchange. Answer: B 	ng up the ability to watch television. In doing B) opportunity cost. D) the fallacy of composition.	167)
 168) John has two hours of free time this evening. He rank second go to a movie, third study for an economics e the opportunity cost of attending the concert for John A) attending a movie, studying for an economics e B) answering his e-mail C) attending a movie D) studying for an economics exam Answer: C 	xam, and fourth answer his e-mail. What is ??	168)
 169) You decide to take a vacation and the trip costs you s report to work where you could have earned \$750. T A) \$750. B) \$2,750. Answer: B 		169)
 170) The term "opportunity cost" points out that A) executives do not always recognize opportuniti B) not all individuals will make the most of life's of their goals. C) there may be such a thing as a free lunch. D) any decision regarding the use of a resource inv Answer: D 	opportunities because some will fail to achieve	170)

 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. 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 	171)
 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. C) Brand A. D) Brand B plus Brand C. 	172)
 173) Which of the following is <u>NOT</u> 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 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. 	173)
 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 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. 	174)
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 ofA) a fallacy of composition.B) opportunity cost.	175)

C) a market mechanism. D) macroeconomics.

176)	176) Suppose you plan to take summer courses. The cost of tuition and textbooks is \$1,200, housing will cost you \$400, and you'll spend \$300 on food. If you decide not to take courses in the summer, 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 time while taking courses, but the most you can earn is \$1,000. What is your opportunity cost of			176)	
	taking courses in the sumn A) \$6,900 Answer: D	B) \$1,900	C) \$4,000	D) \$5,800	
	Answer. D				
177)	and working for Ernst and preferred the job at Ernst a Bureau of Labor Statistics? A) the \$45,000 you are p B) the \$42,000 you woul would have been pair C) the \$38,000 you woul	wo other offers you Young consulting nd Young. What is aid for working at d have been paid w d working for Wal- d have been paid w	a received were working for for \$42,000. Of these two of the opportunity cost of acc the Bureau of Labor Statisti vorking for Ernst and Youn -Mart	r Wal-Mart for \$38,000 fers, you would have epting the position at the cs g and the \$38,000 you	177)
178)	Bill Bonecrusher graduates	from college with	a choice of playing profess	ional football at \$2 million	178)
	a year or coaching for \$50,0 could continue to play foot	000 a year. He decid ball at \$2 million a st of playing footba king movies was _	des to play football, but eigl year, he quits football to m Il at graduation was	ht years later, though he ake movies for \$3 million and eight years later lion	
	Answer: B				
179)	During the summer you ha from working at your usua tuition cost is \$3,000 and be school is A) \$10,300.	Il summer job in w	hich you normally earn \$6,0		179)
	Answer: A				
180)	Jill, an economics student, to continue cleaning for an A) productivity.C) ceteris paribus.		-	e(s) of	180)
	Answer: D				
181)	Marginal benefit is the ben A) of an activity that exc B) that arises from the se C) that arises from an in D) that your activity pro Answer: C	eeds its cost. econdary effects of crease in an activit	y.		181)

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182) The benefit that arises from an increase in an acA) an incentive.C) the marginal benefit.	tivity is called B) the marginal cost. D) opportunity cost.	182)
Answer: C		
183) A benefit from an increase in activity is calledA) a total benefit.C) an economic benefit.	B) an opportunity gain. D) a marginal benefit.	183)
Answer: D		
 184) The marginal benefit is the A) additional cost from one more unit of an a B) forgone opportunity. C) loss of the highest-valued alternative. D) additional gain from one more unit of an a 		184)
Answer: D		
185) The additional benefit of increasing some activiA) marginal benefit.C) marginal opportunity cost.	ty is called the B) marginal opportunity benefit. D) scarcity benefit.	185)
Answer: A		
186) In terms of dollars, the marginal benefit of workA) the wages received for 5 days of work.B) the wages received for 4 days of work.C) the wages received for the fifth day of wordD) None of the above answers is correct.		186)
Answer: C		
	overtime and has offered to pay \$18 per hour for k. The wage rate for each of the first forty hours will of dollars, what is the marginal benefit of working C) \$15.00 D) zero	187)
Answer: B	c) theorem 2, 2010	
 188) A student is studying for an exam 2 hours a day. The student's marginal benefit A) depends on the grade the student earns or B) is greater than the student's marginal cost C) is the benefit the student receives from student is the benefit the student receives from st	n the exam. udying the extra hour.	188)
Answer: C		
 189) A student athlete is deciding whether to work of another hour of exercise A) is the benefit she receives from exercising B) is less than the marginal cost of the addition C) is the benefit she gets from all the hours she D) depends on the cost of the workout. 	the additional hour. onal hour.	189)

Answer: A

 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. 		
Answer: D		
191) Marginal cost is the costA) that arises from the secondary effects of an acB) that your activity imposes on someone else.C) that arises from an increase in an activity.D) of an activity that exceeds its benefit.	tivity.	191)
Answer: C		
192) A cost due to an increase in activity is calledA) an incentive loss.C) a marginal cost.Answer: C	B) the total cost.D) a negative marginal benefit.	192)
193) The cost of an increase in an activity is called		193)
A) an incentive. C) opportunity cost.	B) the marginal cost.D) the marginal benefit.	, <u> </u>
Answer: B		
 194) Marginal cost is the 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 ac D) total cost of an activity. 	tivity.	194)
Answer: A		
 195) Laura is a manager for HP. When Laura must decide 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 common C) the total revenue from sales of printers to the 	al printers to the average cost of producing the panies, such as Lexmark.	195)

D) the extra revenue from selling a few additional printers to the extra costs of producing the printers.

month. With the increa month, its cost will inc Dell's managers A) should not approve B) should approve p exceeds the marg C) should approve p profit.	used production, the co rease by \$9 million a m ove producing 4,000 more producing 4,000 more l inal cost. producing 4,000 more l tional decision unless	ompany's revenue will incre nonth, and its total monthly	y profit will be \$30 million. cost the company too much. al benefit of this action sult in a substantial total	196)
Answer: B				
C) total amount paid	this worker depends of to the new worker. venue created by havir d to all previously hire	on the ng an additional worker.		197)
198) Suppose the cost of 5 p	encils is \$1.50. The cos	st of 6 pencils is \$1.75. The r	marginal cost of the sixth	198)
pencil is A) \$1.75.	B) \$.25.	C) \$1.50.	D) \$3.25.	
Answer: B	,		,	
B) the forgone altern C) an alternative act	concentrate on the acti- natives' costs must be i	vity's total benefits. ncreased.		199)
200) To decide whether to g A) not make the <i>pos</i> B) not make the fall C) compare margina D) unscramble cause Answer: C	t <i>hoc</i> fallacy. acy of composition. al cost to the marginal	ng break, you should benefit of taking the trip.		200)
A) must be greater tB) is the benefit theC) is the benefit the	r each evening. The ov han or equal to the ow owner receives from st	wner's marginal benefit ner's marginal cost if the ov taying open from 8 a.m. to taying open from 8 a.m. to	wner decides to stay open. 5 pm.	201)

Answer: A

202) If the marginal cost of an activity falls or the marginaA) not change your participation.C) undertake less of the activity.	al benefit rises, then you would B) undertake more of the activity. D) cease participation in the activity.	202)
Answer: B		
203) Which of the following creates an incentive to increa A) an increase in the marginal cost of the activity a activity	-	203)
 B) constant marginal cost and constant marginal b C) a decrease in the marginal cost of the activity a activity 	-	
D) None of the above create an incentive to increase	se the amount of an activity.	
Answer: C		
 204) Suppose that the government of New York state proposes that the government of New York state proposes stay in New York instead of moving to another state. , to make the of the firm remaining A) a command; marginal cost exceed the marginal B) an incentive; marginal cost exceed the marginal C) an incentive; marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit exceed the marginal D) a command; marginal benefit exceed the marginal benefit excee	This policy on the part of the state constitutes g in New York. I benefit I benefit inal cost	204)
Answer: C		
 205) Jed had an exam score of 50 percentage points. There complete that will raise his exam score by 20 percent credit assignment will take 10 hours of his time. Jed A) 70 percentage points more than the 10 hours of B) 10 hours of his time more than the 20 percentage C) wants a higher score. D) 20 percentage points more than the 10 hours of formation of the store of the stor	age points. Jed has determined that the extra will complete the assignment he values the his time. ge points.	205)
Answer: D		
206) The fact that KFC decides to produce chicken ratherA) a howB) an incentiveAnswer: D	than meat loaf best reflects tradeoff. C) a for whom D) a what	206)
 207) From 8 P.M. to 10 P.M., Susan can attend a movie, studecides to go to the movie but thinks that, if she had friends. The opportunity cost of attending the movie A) talking with friends and studying. C) studying. Answer: D 	n't, she would otherwise have talked with	207)
209) When the government birss people to convert the or	my these people are no longer systically to the	200)
208) When the government hires people to serve in the ar other work. This choice illustrates the concept ofA) marginal benefit.C) a social interest/private interest conflict.Answer: B	my, these people are no longer available to do B) opportunity cost. D) an incentive.	208)

209) When the government chooses to spend the tax dolla	rs 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 service C) involves a tradeoff of other goods and services and services involves no tradeoff because the defense is necessary. 	such as education for more homeland security	
Answer: C		
 210) Making a choice at the margin means A) letting someone else choose for you B) making a choice by comparing the total benefit C) deciding to do a little bit more or a little bit less D) waiting until the last minute to make a choice 		210)
Answer: C		
 211) Suppose that for the past two months, you have stud decide to study economics two hours a day. For the p A) the opportunity cost of studying economics mu B) your marginal benefit from studying economics marginal cost C) your marginal cost of studying economics for a benefit D) the marginal cost of studying economics must have a studying economic e	bast two months, st have risen. s an hour must have been greater than its n hour must have exceeded its marginal	211)
Answer: B		
212) In economics, positive statements are aboutA) the way things ought to be.C) microeconomics, not macroeconomics.	B) macroeconomics, not microeconomics. D) the way things are.	212)
Answer: D		
 213) A positive statement is A) about what is. B) valid only in the context of a model with simple C) the result of a model's normative assumptions. D) about what ought to be. Answer: A 	e assumptions.	213)
214) A positive statement is		214)
A) about what ought to be.C) about what is.	B) always true. D) one that does not use marginal concepts.	
Answer: C	b) one that does not use marginal concepts.	
 215) A positive statement A) is a statement of what is. B) is an affirming statement that is strongly worde C) cannot be tested by checking it against the facts D) is a statement of what ought to be. Answer: A 		215)

216) Which of the following are true regarding "positive" s	statements?	216)	
 I. They describe what "ought to be." II. They describe what is believed about how the work of the second secon	orld appears. C) I and II.	D) II and III.	
 217) Positive and normative statements differ in that A) positive statements can be tested, whereas norm B) normative statements can be tested, whereas positive C) normative statements never use the word "shound D) normative statements depict "what is" and positive Answer: A 	sitive statements cannot. Id."	217)	
218) A positive statement is a statement aboutA) what should be but is not.C) what is.Answer: C	B) what is and what sho D) what is desirable.	218)	
219) Positive economic statementsA) can be tested against the facts.C) cannot be tested against the facts.Answer: A	B) prescribe what shouldD) are related only to mid		
 220) Which of the following is a positive statement? A) An unemployment rate of 9 percent is a national B) Unemployment is a more important problem the C) Unemployment and inflation are equally imported D) When the national unemployment rate is 9 percenter youth is often close to 40 percent. Answer: D 	an inflation. tant problems.	220) te for inner-city	
 221) Which of the following is a positive statement? A) A 5 percent increase in income leads to a 3 percent juice. B) The United States should fight inflation even if C) What to do with Social Security is the most imp D) Because they decrease productivity, labor union Answer: A 	it raises unemployment. ortant economic issue toda		
222) Which of the following is a positive statement?A) The government ought to provide health care to B) Corporations should be more socially responsib C) The distribution of income is fair.D) People buy more of a good or service when its particular statement of the service when its particular statement of th		222)	

 223) Which of the following is <u>NOT</u> a normative statement? A) People buy more of a good or service when its price falls. B) The government ought to provide health care to everyone. C) The distribution of income is fair. D) Corporations should be more socially responsible. 		223)
Answer: A		
224) A normative statement concernsA) a value judgment.C) what is provable.Answer: A	B) what is correct.D) what is incorrect.	224)
 225) Normative economic statements A) describe the process of economic policy-making B) describe what ought to be. C) deal with economic hypotheses that are not well D) describe what is rather than what ought to be. Answer: B 	-	225)
 226) The statement that "peach ice cream is better than cheen and construct that "peach ice cream is better than cheen and construction of the scientific approach. B) is a normative statement. C) provides a basis for predicting which type of ice D) is a positive statement. Answer: B 		226)
227) The statement "Unemployment should be kept at or IA) a positive statement.C) an assumption.Answer: B	below a level of 6 percent" is B) a normative statement. D) a prediction.	227)
 228) Which of the following is an example of a positive state A) Government should not redistribute income. B) The foreign sector should be more tightly controls. C) Business firms ought to contribute more to chare D) Households are the primary source of saving. Answer: D 	olled.	228)
 229) Which of the following is an example of a positive state A) We should cut back on our use of carbon-based B) Every American should have equal access to be C) The Federal Reserve ought to cut the interest rate D) Increasing the minimum wage results in more C Answer: D 	l fuels such as coal and oil. alth care. te.	229)
 230) Which of the following is a positive statement? A) A 10 percent increase in income leads to a 4 per B) My economics class should last for two terms b C) Given their negative impact on productivity, th D) Taxes should be lower because then people get Answer: A 	ecause it is my favorite class. e government should eliminate labor unions.	230)

 231) Which of the following is a positive statement? A) Our planet is warming because of an increased carbon dioxide buildup in the atmosphere. B) A minimum wage of \$5.50 per hour is a shame for a rich country like the United States. C) Both these statements are positive. D) Neither of these statements is positive. 		231)
Answer: A		
 232) When AI makes the statement, "The cost of living has he is A) testing an economic model. C) making a normative statement. 	increased 10 percent over the past 10 years," B) making a positive statement. D) facing the standard of living tradeoff.	232)
Answer: B		
 233) Which of the following is a positive statement? A) State lotteries are good methods to use for raisin B) An increase in gas prices leads people to carpoo C) Increased prison sentences are the best way to r D) Inflation is a more serious problem than is deflat Answer: B 	I more. educe the crime rate.	233)
234) The statement "Managers with a college education ea	rn \$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 w is	ill 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 becaus earn. B) The government must lower the price of a pizza C) My economics class should last for two terms be D) An increase in tuition means fewer students will Answer: D 	so that more students can afford to buy it. ecause it is my favorite class.	236)
 237) Which of the following is a positive statement? A) Low rents are good because they make apartment B) Low rents decrease the amount of housing land C) Owners of apartment buildings ought to be free D) Housing costs too much. Answer: B 	lords make available for rent.	237)
238) The statement "The unemployment rate for teens is hA) a political statement.C) an ethical statement.Answer: D	igher than that for adults" is B) a normative statement. D) a positive statement.	238)

239) The statement "Prices rise more in countries with rap A) an ethical statement.C) a positive statement.Answer: C	oid growth in the money supply" is B) a political statement. D) a normative statement.	239)
240) Statements about what ought to be are calledA) assumptions.C) normative statements.Answer: C	B) implications.D) positive statements.	240)
 241) Normative statements are statements about A) what is. C) prices. Answer: B 	B) what ought to be. D) quantities.	241)
242) A normative statement isA) one that does not use marginal concepts.C) always true.Answer: D	B) about what is. D) about what ought to be.	242)
243) In economics, normative statements are aboutA) the way things are.C) marginal costs, not marginal benefits.Answer: B	B) the way things ought to be. D) marginal benefits, not marginal costs.	243)
 244) Which of the following is a normative statement? 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 Answer: A 	ers.	244)
 245) Which of the following is a normative statement? A) The unemployment rate rose last month. B) The unemployment rate is too high. C) Forty percent of the public believes that the une D) all of the above Answer: B 	employment rate is too high.	245)
 246) Which of the following is a normative statement? A) The United States has a comparative advantage production of wheat. B) The main reason why the United States has a transference of the practices are unfair. C) Both these statements are normative. D) Neither of these statements is normative. Answer: B 		246)

	 At least 7 out of every 10 economists agree with the forpropositions is normative? A) The redistribution of income is a legitimate role B) Cash payments to welfare recipients make them cash value. C) Tariffs and import restrictions make most peopl D) Rent controls cut the availability of housing. Answer: A 	for the U.S. government. better off than do transfers-in-kind of equal	247)
·	"Government should act to reduce poverty levels." A) This statement is an example of the fallacy of co B) This statement is a normative statement. C) This statement is a positive statement. D) This statement is an example of the <i>post hoc</i> falla Answer: B		248)
-	 When Susan makes the statement, "The government s national parks," she is A) making a positive statement. C) making a normative statement. 	hould spend less money to take care of B) facing the standard of living tradeoff. D) testing an economic model.	249)
ŗ	"All children should have health insurance" is a A) fallacy of composition C) <i>post hoc</i> fallacy Answer: D	B) positive statementD) normative statement	250)
	"The rich should pay higher income tax rates than the A) normative statement. C) theoretical statement. Answer: A	poor" is an example of a B) descriptive statement. D) positive statement.	251)
	 Which of the following is a normative statement? A) Studying more hours leads to an increase in you B) Taking extra vitamin C prevents catching a cold C) States should require all motorcycle riders to we killed. D) An increase in tax rates means people work few Answer: C 	ear helmets to reduce the number of riders	252)
·	 Which of the following is a normative statement? A) Owners of apartment buildings are free to charge B) Low rents are good because they make apartme C) Low rents will restrict the supply of housing. D) Housing costs are rising. 	-	253)

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 on 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 price of gas is 10	
cents higher than it was during the Thanksgiving holiday.	
Answer: A	
256) Suppose that an economist tells you that people in the United States do not save enough out of their	256)
incomes. This is an example of statement.	
A) a <i>ceteris paribus</i> 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 numerically.	
D) includes only those features of the world that are needed for the purpose at hand.	
Answer: D	
	0 7 0)
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 those features of the	
world that are needed for the purpose at hand.	
D) a generalization that summarizes all the normative assumptions we make about a particular	
issue.	
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.	
Answer: C	

	 Which of the following is a positive statement? A) An increase in the price of pizza will lead fewer B) The government should spend more on education C) The government must provide health insurance treatment. D) My favorite dinner is pizza and soda. Answer: A 	on.	261)
	 An economic model includes A) no use of marginal concepts. B) all known details in order to increase its accurac C) only details considered essential. D) only normative statements. Answer: C 	y.	262)
	 The statement that is a positive statement. A) the price of sugar in the United States is higher t B) too many people in the United States have no he C) more students should study economics D) the price of gasoline is too high Answer: A 	•	263)
-	 Ben Bernanke, Chairman of the Federal Reserve, must the Treasury or Congress regarding the financial crisis A) fact that Bernanke responds to incentives C) use of capital. Answer: B 		264)
	 When the president of the Bank of America addresses industry, he is discussing A) incentives. C) a microeconomic topic. Answer: C 	Congress regarding lending standards in that B) a macroeconomic topic. D) the big tradeoff.	265)
-	 When Ben Bernanke, Chairman of the Federal Reserve States' role in the world economy, he is discussing A) a microeconomic topic. C) a macroeconomic topic. Answer: C 	e, addresses Congress regarding the United B) incentives. D) scarcity.	266)
	Dell Computers decides to produce PCs and sell them This is an example of A) incentives C) a microeconomic decision Answer: C	a directly over the Internet and via BestBuy. B) a macroeconomic decision. D) scarcity.	267)

 268) In 2008, China chose to allow its peasant that these farmers will A) act in the social interest. B) act in their self-interest. C) respond to incentives and increase D) all of the above. Answer: D 		eir land. China hopes	268)
 269) Consider the following events: Samsung hires associates to marl The Dallas Cowboys build a new Ebay fires 10 percent of its workf Ten million stocks were traded o Pennsylvania builds a new state 	v football stadium. force. n the New York Stock Exchange in	one day.	269)
Which of the events describe use of facto A) ii, iv, and v. B) i and iii c	•	D) i, ii, iii, and v.	
Answer: D			
 270) Panasonic sends its HDTV salespeople to A) a macroeconomic decision. B) scarcity. C) entrepreneurship. D) a firm investing in workers' human Answer: D 		le of	270)
271) When BestBuy chooses to devote more saA) answers a macroeconomic questionC) answers the <i>what</i> question.Answer: C	-	om question	271)
 272) When CBS decides to produce another see A) answers the <i>how</i> question. B) answers the <i>what</i> question. C) doesn't face a trade off because there D) doesn't face scarcity because there Answer: B 	re is unlimited air time.		272)
273) When Delta Airlines encourages flyers to) book their trips online versus maki	ng phone reservations.	273)
 it is A) facing natural resource depletion. B) making a choice in the social interest C) answering the <i>how</i> question. D) answering the <i>what</i> question. Answer: C 			
274) When the Target Pharmacy offers autom	atic refills of prescriptions versus co	ming into the store	274)
and ordering through the pharmacist, it i A) answering the <i>for whom</i> question. C) making a choice in its self-interest Answer: B	is B) answering the <i>how</i>	question.	

275) When the New York Jets pay their new player a signing bonus of \$10 million, the team is			275)		
answering		D) the how and what an	octions		
A) the <i>what</i> question.C) the <i>for whom</i> question.		B) the <i>how</i> and <i>what</i> quD) the <i>how</i> question.	estions.		
Answer: C					
276) Barack Obama supports raisii	ng income taxes paid by	the highest-income Ame	ericans and John	276)	
McCain supports maintainin	g the current income tax	structure. The presiden	tial candidates are ans		_
the question.		0)	D)hat		
	3) for whom	C) microeconomic	D) what		
Answer: B					
277) When Target decides to hire a	another sales clerk to ha	ndle the holiday rush. Tai	rget assumes that the	277)	
clerk's extra sales are greater			0		_
A) the big tradeoff.	_	B) answering the <i>how</i> q	uestion.		
C) answering the <i>what</i> que	stion.	D) making a decision at	the margin.		
Answer: D					
				070)	
278) "When OPEC increases the su example of	ipply of oil to the marke	it, the price of gasoline fai	is." This is an	278)	_
A) a normative statement.		B) a positive statement.			
C) a macroeconomic staten	nent.	D) the big tradeoff.			
Answer: B					
279) "As part of the financial crisis				279)	
banks. This will result in an i	ncrease in the inflation	-			
A) the big tradeoff.C) a normative statement.		B) a microeconomic staD) a positive statement.			
Answer: D					
Aliswei. D					
280) "As part of the financial crisis	bailout plan in 2008, th	e Federal Reserve should	not bail out banks	280)	
that made risky loans." This i					_
A) the big tradeoff.		B) opportunity costs.			
C) a normative statement.		D) a positive statement.			
Answer: C					
281) "OPEC should supply more o	il so that the world's eq	nomies can grow more r	anidly" This is an	281)	
example of				2017	—
A) the big tradeoff.		B) a positive statement.			
C) a decision at the margin	l.	D) a normative stateme	nt.		
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 be satisfied.
- 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 yo 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: O True False	
315) Rich people don't have to deal with scarcity.	315)
Answer: True 🧧 False	
316) Scarcity affects only those who are in need.	316)
Answer: True 🥝 False	
317) Scarcity arises because of opportunity costs.	317)
Answer: True 🥥 False	

318) Microec	onomics is	the study of topics such as national production and unemployment.	318)
Answer	True	False	
319) Macroed	onomics is	the study of aggregate variables such as national production and	319)
unemple	oyment.		
Answer	True	False	
-	s, instrume uman capit	nts, machines, and buildings that people use to produce goods and services are al.	320)
Answer	True	False	
321) Most inc	ome in the	United States is earned by business owners as profit.	321)
Answer	True	False	
322) The Uni	ted States p	produces more services than goods.	322)
Answer	True	False	
323) A count "how" q	5 0	ainly labor to build a dam instead of using mainly machines is answering the	323)
Answer	True	False	
324) When a	business in	creases its workers' wages, it is answering the "what" question.	324)
Answer	True	False	
years we	•	and processes introduced during the Information Revolution of the last twenty of a successful implementation of a strategic economic plan designed by the	325)
Answer	True	False	
-		0 movie ticket rather than two paperback books, the opportunity cost of going to o paperback books I did not buy.	326)

Answer: <a>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 tota 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 opportunit 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 tota 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 ear The 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 a 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 answquestion 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.

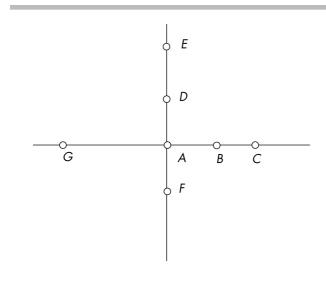
Answer: a) The university's marginal cost is \$170. These are the extra cost of electricity (\$100) and janitorial servic that the university will only pay if you rent the Center. The costs of building the Center, insurance, and requaintenance costs are not extra costs incurred because you rent the Center. 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 A) measures time C) is named the x Answer: C	on a scatter diagram.	B) is named the y D) measures the c	-axis. quality of a variable.	331)
332) The vertical axis in a A) has no origin. B) measures time C) is named the x D) is named the y	in a cross-section/time serie -axis.	s graph.		332)
Answer: D				
333) The value of the y-c A) x-axis. Answer: A	oordinate of a point in a grap B) scalar.	oh is the length of a line C) y-axis.	from the point to the D) origin.	333)
334) The value of the x-c A) y-axis. Answer: A	oordinate of a point in a grap B) scalar.	oh is the length of a line C) origin.	from the point to the D) <i>x</i> -axis.	334)
-	tis of a graph, generally positive and/or negative. e from left to right.	-	e from right to left. A and C are correct.	335)



336) In the figure above, the value on the *x*-axis increases as we move from
A) point *G* to point *A*.
B) point *F* to point *A*.
D) point *E* to point *A*.

Answer: A

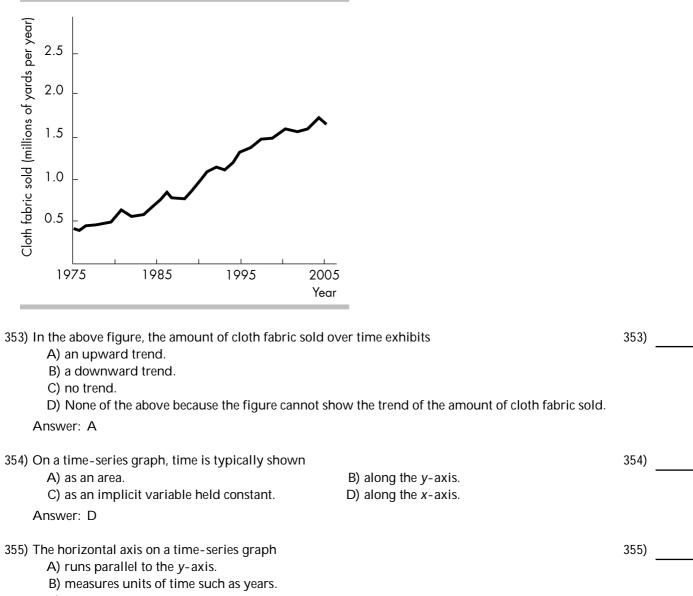
 337) In the figure above, the value on the y-axis decreases A) point <i>E</i> to point <i>A</i>. C) point <i>G</i> to point <i>A</i>. Answer: A 	as we move from B) point <i>C</i> to point <i>A</i> . D) point <i>F</i> to point <i>A</i> .		337)
 338) In the figure above, point B is A) a coordinate B) on the x-axis Answer: B 	C) on the y-axis	D) at the origin	338)
Axis 2			
b c Axis 1 Axis 1			
 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. 			339)
 Answer: B 340) Using the above figure, which of the following is true A) Point <i>b</i> is known as the origin. C) Axis 2 is typically called the <i>x</i>-axis. Answer: A 	? B) Axis 1 is typically cal D) Axis 1 is also known		340)
341) To see how variables evolve over time we useA) a scatter graph.C) a time-series graph.Answer: C	B) a cross-section plot.D) an evolution plot.		341)

 342) To show how a variable, we typically use a, A) relates to another variable; pie chart B) evolves over time; cross-section graph C) evolves over time; time-series graph D) relates to another variable; time-series graph 		342)
Answer: C		
343) A graph that measures time on the horizontal axis and called a(n)A) time-series graph.	B) cross-section graph.	343)
C) one-dimensional graph. Answer: A	D) inverted graph.	
344) Which type of graph is used to identify trends?A) time-seriesC) scatterAnswer: A	B) cross-sectionD) None of the above answers is correct.	344)
 345) Which of the following is correct about a time-series of I. The <i>x</i>-axis measures time. II. A time-series graph can reveal if there is a trend if A) only I B) only II Answer: C 		345)
 346) From a time-series graph showing sales of shoes in detell A) the changes in sales over time. B) the level of sales at a given time. C) the speed of change in sales over time. D) None of the above answers is correct because it is time-series graph described. Answer: D 		346)
 347) Time-series graphs can quickly convey information a A) the direction of change in the value of a variable B) the level of a variable at any point in time. C) whether there is a trend in the variable over time D) All of the above answers are correct. Answer: D 	over time.	347)
 348) A time-series graph reveals whether there is a A) trend in a variable; a general tendency for the va B) trend in a variable; unrelated variables C) relationship between two variables; a cross-sect D) relationship between two variables; a trend in a 	ariable to rise or fall ion graph	348)

Answer: A

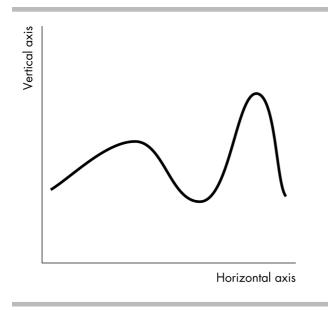
349)	349) A time-series graph showing total production in Japan from 1960 to 2002 shows a positive trend. I is the case that total production		
	A) was higher in 2002 than in 1960.	B) was lower in 2002 than in 1960.	
	C) fell every year between 1960 and 2002.	D) rose every year between 1960 and 2002.	
	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 the A) a positive trend. B) no relationship between time and the amount product of a linear relationship. D) an inverse relationship between time and the a Answer: D 	the total amount produced, you expect to find produced.	351)
	Answer. D		
352)	Demonstrating how an economic variable differs acr illustrated by	ross countries for a specific year is best	352)
	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	night mislead.	

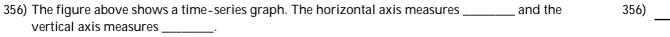
Answer: B



- C) measures how the variable being graphed changes.
- D) measures the variable being graphed.

Answer: B



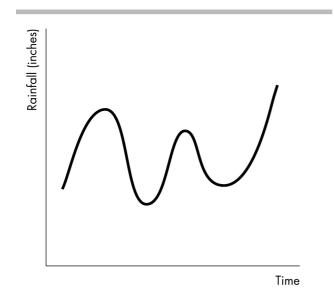


A) y-values; the variable of interest

C) time; the variable of interest

Answer: C

- B) time; x-values
- D) the variable of interest; time



357) The figure above shows a

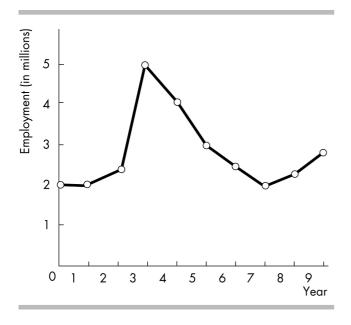
- A) scatter diagram.
 - C) time-series graph.



B) regression.

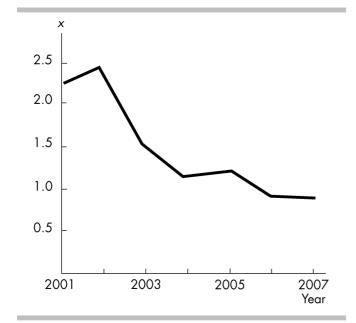
D) two-variable time-series graph.

Lice of crude oil (dollars per barrel Price of crude oil (dollars per barrel 57 Apr May Jun	Jul Aug Sep Oct Nov D	P Pec		
358) Using the above figur A) October	re, during which month B) July	was the price for crude oil the C) December	e highest? D) May	358)
Answer: C				
359) Using the above figur downward trend? A) May to July	re, during which of the f	ollowing periods does the pri B) October to Decer		359)
C) May to Noveml	ber	D) July to October		
Answer: D				
upward trend?	-	ollowing periods does the pri		360)
A) April to Novem	nber	B) May to Novembe		
C) July to October		D) May to July and	October to December	
Answer: D				



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

363) A time-series graph displaying real GDP from 1950 to GDP	o 2008 has a positive trend. It is likely that real	363)
A) rose every year from 1950 to 2008.	B) was lower in 1950 than in 2008.	
C) was higher 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-s and time (in years) on the horizontal axis would show 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 line. 	V	364)
Answer: B		
365) A time-series graph displays the price of copper. The the	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.	B) quantity of copper is falling.D) price of copper is falling.	
Answer: D		
366) A graph shows the wages of factory workers. The slop wage rate is	pe 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 		
Answer: D		
368) A trend showsA) the scale used to measure to variables.B) the degree of correlation between two variablesC) the general tendency for a variable to rise or fallD) the increases in one variable.		368)
Answer: C		
 369) Trend refers to 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 		369)

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 	at a certain point in time. B) regression D) time-series graph	372)
Derestance created by inductor (second	Production Provide disposal Solid waste disposal Provide disposal Contraction		
373)	The above figure shows sources of air pollution. The fA) a multi-variable line graph.C) a cross-section graph.Answer: C	figure is B) a scatter plot diagram. D) a time-series graph.	373)
374)	Which type of graph shows the values of an economic at a point in time?A) cross-sectionC) time-seriesAnswer: A	c variable for different groups in a population B) scatter D) None of the above answers is correct.	374)

375) A graph shows the average wage of various demogra	aphic groups in 2007. The kind of graph used	375)
to show this data would be		
A) a time-series graph.	B) a cross-section graph.	
C) a Venn-diagram.	D) a scatter plot.	
Answer: B		
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 averagic lasses 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	2, con co grap	
		0.7.0)
378) A cross-section graph examines		378)
A) one variable at a point in time.	B) two time-series over time.	
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. Answer: B 		379)
380) A graph that shows the average income of different c		380)
A) a time-series graph.	B) a trend graph.	
C) the origin.	D) a cross-section graph.	
Answer: D		
381) You have data for real income per person for develop best display these data would be a	ping 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	as you own for the month of Sontambor. The	382)
type of graph to best display these data would be a	as you own for the month of september. The	5027
A) cross-section graph.	B) scatter diagram.	
C) Venn diagram.	D) time-series graph.	
Answer: A	,	

383) You have data for the amount of rainfall in 50 cities for	or the month of June. The type of graph to best	383)
display these data would be a A) scatter diagram.	B) cross-section graph.	
C) time-series graph.	D) multi-variable time-series graph.	
Answer: B		
384) You have data for average tax rates for each of the 50 display these data would be a	states for 2002. The type of graph to best	384)
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	I dropouts vary among six western European	385)
A) a one-variable graph.	measured along the herizontal axis	
 B) a time-series graph with each different country C) two triple-axes graphs. D) a cross-section graph. 	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 h	eight and weight for individuals.	
B) in predicting next year's rate of unemployment		
C) in resolving a dispute over two normative asser	tions.	
D) All of the above are correct.		
Answer: A		
200) Which type of graph is most useful in determining if	two variables are correlated?	200)
389) Which type of graph is most useful in determining ifA) cross-section	B) scatter	389)
C) time-series	D) None of the above answers is correct.	
Answer: B		
390) Which type of graph should be used if the purpose or relationship between savings and income?	f the graph is to check the strength of the	390)
A) a scatter diagram	B) a time-series graph	
C) a trend diagram	D) a bar chart	
Answer: A		

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

- 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.

B) a scatter diagram.

D) a time-series diagram.

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.

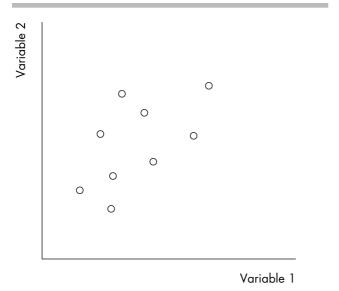
Answer: B

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

A) no relationship, under any circumstances.

C) a contour map.





393) The figure above is a

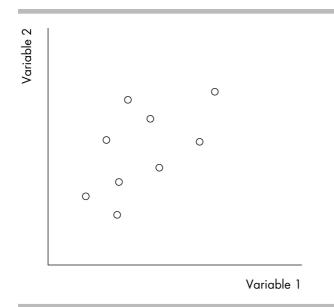
- A) cross-section graph.
- B) time-series graph.
- C) scatter diagram.

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

Answer: C

393)

391)



394) The above figure is

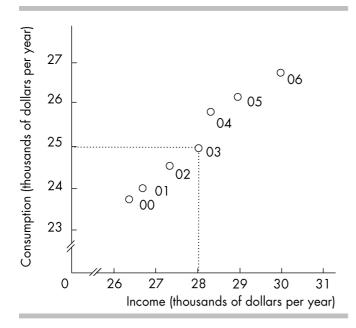
A) a scatter diagram showing that there is no clear relationship between unemployment and inflation.

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.

Answer: A



395) The above figure plots income and consumption in a nation. In 2003

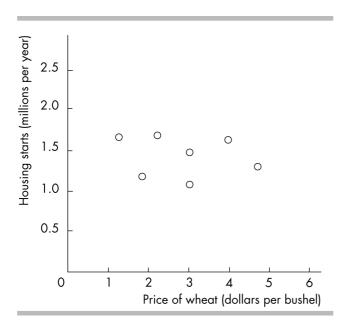
A) consumption was equal to \$27,000 and income was equal to \$31,000.

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



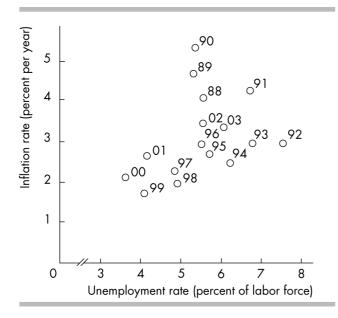
396) The above figure graphs the price of a bushel of wheat and housing starts. The graph shows the variables are

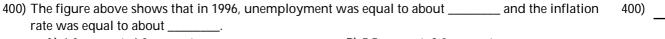
A) related via an indirect relationship.C) not related.

B) strongly negatively related.D) strongly positively related.

Answer: C

у 		
0 0 0		
0 0 0		
0 0		
,	x	
397) The figure above is an example of a		397)
A) scatter diagram.C) time-series graph.	B) cross-section graph.D) regression.	
Answer: A		
398) Compared to other types of graphs, a is variables like unemployment and inflation.	preferred to show the relationship between two	398)
A) time-series graphC) scatter diagram	B) coordinate D) cross-section graph	
Answer: C		
 399) Using a graph to plot family incomes against food A) a time-series and a scatter diagram. B) a scatter diagram. C) a time-series graph. 		399)
D) neither a time-series nor a scatter diagram.Answer: B		

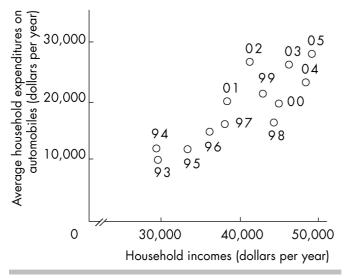




C) 7.0 percent; 3.0 percent

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.

401)

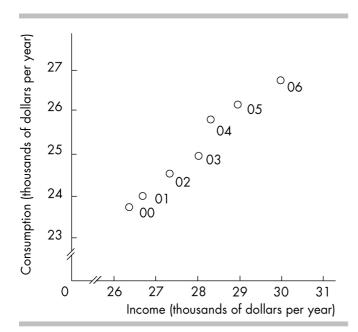
B) cross-section graph.

D) None of the above answers is correct.

402) The above figure reveals

- 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

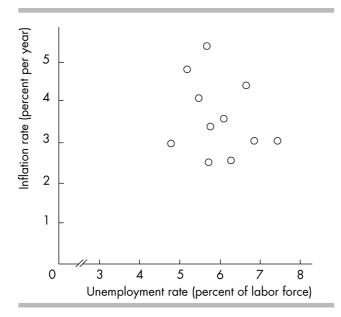


403) In the above figure, the axis breaks are used

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)

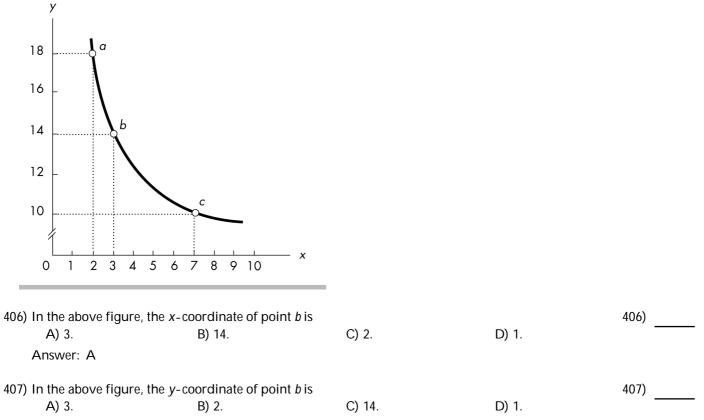
405)

- 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.

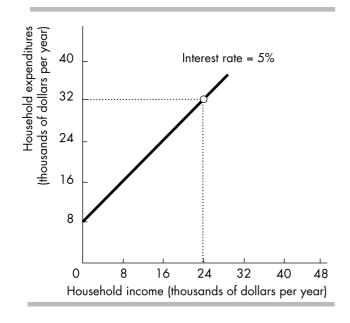
Answer: D

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

Answer: A



Answer: C



408) In the above figure, when income is zero, household expenditures equal408)A) \$1000.B) 0.C) \$8000.Answer: C

409)	Demonstrating how an economic variable changes fr A) one-variable graph. C) time-series graph. Answer: C	rom one year to the next is best illustrated by a B) cross-section graph. D) linear graph.	409)
410)	You believe that the total amount of goods produced over the years. In a time-series graph illustrating the A) no relationship between time and the amount of B) an inverse relationship between time and the a C) a linear relationship. D) an upward trend. Answer: D	e total amount produced, you expect to find of goods produced.	410)
411)	 You notice that when the inflation rate increases, the observation indicates that A) a cross-section graph of the inflation rate and the relationship. B) higher inflation rates must cause a higher inter C) a scatter diagram of the inflation rate and the indicates the false causality between inflation 	he interest rate will show a positive est rate. nterest rate will show a positive relationship.	411)
412)	 You hypothesize that more natural gas is sold in the the following possibilities would best reveal if your A) A scatter-diagram plotting the average temper natural gas sold. B) A trend diagram that plots the trend in natural average temperature in the Northeast 30 years C) A time-series diagram showing the amount of last 30 years. D) A time-series diagram showing the average temperature years. 	belief is correct? rature in the Northeast against the amount of gas sales over the last 30 years against the ago and this year. natural gas sold in the Northeast during the	412)
413)	Which type of graph can mislead?		413)
- /	A) a scatter diagramC) a time-series graph	B) a cross-section graph D) <i>Any</i> type of graph might mislead.	, <u> </u>

Answer: D

ي عو 50,000 -		
<u>5</u> 40,000 -		
Our mption 40,000 - 30,000 - 20,000 -		
20,000		
10,000 -		
0 10,000 20,000 30,000 Income (dollars per y	ear)	
414) In the figure above, when income equals \$20,000, A) \$0 C) \$10,000	, what does consumption equal? B) \$20,000 D) impossible to tell	414)
Answer: D	<i>,</i> ,	
415) If two variables are positively related, thenA) they move in opposite directions.C) they are independent of each other.	B) they move in the same direction.D) their graph will have a negative slope.	415)
Answer: B		
416) If two variables both increase at the same time orA) conversely related.C) unrelated to each other.Answer: D	 decrease at the same time, they are B) negatively related. D) positively related. 	416)
417) If there is a direct relationship between two variaA) the slope of the line (or the slope of a tangetB) the graph of the relationship will be downvC) the graph of the relationship will be upwarD) Both answers A and C are correct.	nt line to the curve) will be negative. vard-sloping.	417)
Answer: C		
 418) The variable measured on the y-axis increases w increases. As a result, the relationship between the A) have a slope of zero. C) be a vertical line. Answer: D 		418)

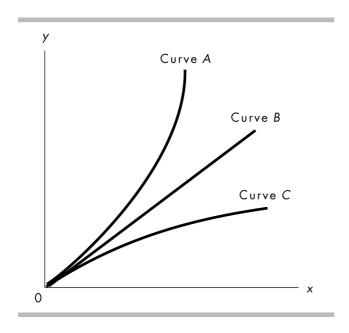
 419) A positive relationship exists between two variables if A) a reduction in one variable is associated with a d B) a reduction in one variable is associated with an C) one variable has "positively" no effect on the other D) both variables are inflation-distorted. 	ecrease in the other variable. increase in the other variable.	419)
Answer: A		
 420) If the slope of a line that graphs the relationship betwee we know that A) the two variables have an inverse relationship. B) the two variables are unrelated. C) when the value of variable <i>x</i> increases, then the <i>x</i> D) when the value of variable <i>x</i> decreases, then the <i>x</i> 	value of variable y decreases.	420)
421) For the Jones household it has been estimated that for temperature the consumption of ice tea increases by 5 between temperature change and the consumption of A) maximum relationship	glasses. What type of relationship exists	421)

C) negative relationship

D) positive relationship

422)

Answer: D



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

A) Only curve A.

B) Only curve B.

C) Only curve C.

D) All the curves show a positive relationship.

Answer: D

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.

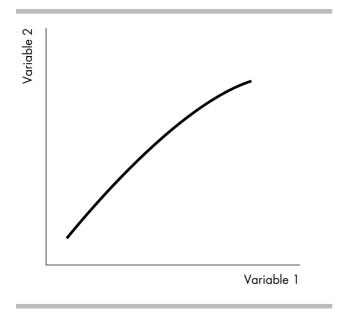
Answer: D

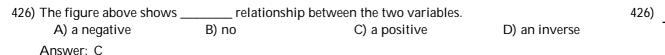
- 424) A scatter diagram with the price of vacations to Mexico on the vertical axis and the price of vacations to California on the horizontal axis shows a positive relationship. If the price of vacations to Mexico were placed on the horizontal axis, and the price of vacations to California on the vertical 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





70

424)

427)	"As you devote more hours to studying, your GPA i show	ncreases." A graph of this relationship would	427)
	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." AA) an inverse relationship.C) a positive then a negative relationship.Answer: D	graph displaying this relationship would show B) a cross-section graph. D) a positive relationship.	428)
429)	"If you hire 1 worker, the worker can produce 20 piz worker can produce 10 more pizzas. If you hire a 3r pizzas a day." A graph displaying this relationship b pizza output per day would show A) a negatively-sloped curve that becomes less st B) a positive linear relationship. C) a negative linear relationship. D) an upward-sloping curve that becomes less st Answer: D	d worker, that worker can produce 2 more between the number of employees and <i>total</i> seep.	429)
430)	If you study 3 hours for an exam, you can raise your hours your score increases by 10 points. And if you increase by 5 more points. A graph displaying this r studied and your <i>total</i> exam score would show A) an upward-sloping curve that becomes more a B) a positive linear relationship. C) a negative linear relationship. D) an upward-sloping curve that becomes less st Answer: D	study for another 3 hours, your score will relationship between the number of hours steep.	430)
431)	Suppose you produce 10 bikes a day for a total cost you produce 15 bikes. Finally, total costs increase to the relationship between total costs and the number A) a negatively-sloped line that becomes steeper B) a positively-sloped line that becomes flatter. C) a positively-sloped line that becomes steeper. D) a negatively-sloped line that becomes flatter.	\$1300 if you make 20 bikes. A graph showing of bikes produced would be	431)

Answer: C

X	у
0	0
2	6
4	12
6	18
8	24
10	30

432) In the above table,	when x increases from 4 u	nits to 6 units, y changes by	units.	432)
A) -6	B) -2	C) 6	D) 2	
A 0				

Answer: C

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

A) second cousins.

C) negatively related.

Answer: B

B) positively related.D) inversely related.

x	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

A) positive and linear.

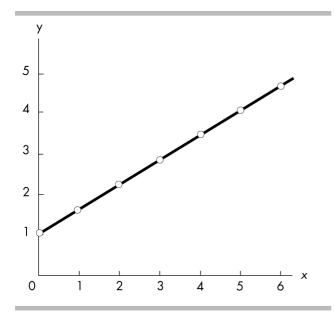
B) negative and linear.

C) positive, and the curve becomes flatter as *x* increases.

D) positive, and the curve becomes steeper as *x* increases.

Answer: A

434)



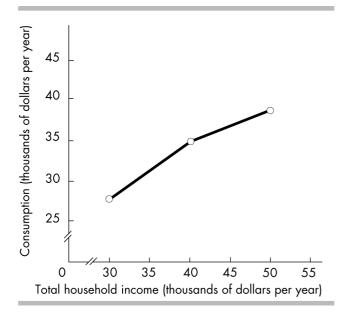
- 435) In the above figure, the relationship between x and y is
 - A) negative and linear.
 - B) positive, and the curve becomes flatter as *x* increases.
 - C) positive, and the curve becomes steeper as *x* increases.
 - D) positive and linear.

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 436) household income. Based on these data, total consumption varies
 - 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

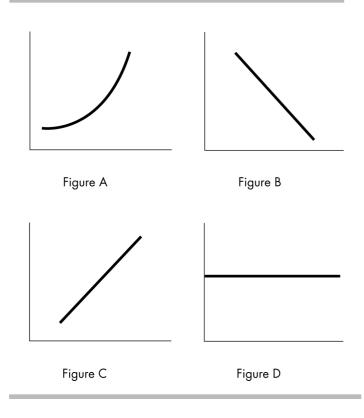
y 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 x		
 438) The relationship depicted in the above figure is A) a negative linear relationship. B) a positive becoming less steep relationship. C) a positive linear relationship. D) a positive becoming steeper relationship. Answer: B 		438)
 439) Whenever one variable increases, another variable de A) negatively related. B) unrelated to each other. C) definitely related through a third variable. D) positively related. Answer: A 	ecreases. The two variables are	439)
440) If variable x always increases when variable y decreaA) trend related.C) positively related.Answer: B	ses, x and y are said to be B) negatively related. D) unrelated.	440)
 441) If there is an inverse relationship between variable x is 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 	and 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 variab A) graph of this relationship will be downward-slopi B) graph of this relationship will be upward-slopi C) graph of this relationship will be a horizontal line D) slope of the line (or the slope of a tangent line to Answer: A 	oping. ng. ne.	442)

443) A negative relationship exists between the variable measured along the y-axis and the variable		
measured along the <i>x</i> -axis if A) the variable measured along the <i>x</i> -axis and the variable measured along the <i>y</i> -axis move in		
the opposite direction. B) the variable measured along the x-axis an	d the variable measured along the y-axis move in	
the same direction.		
C) an increase in the variable measured along variable measured along the y-axis.	the x-axis is associated with an increase in the	
	g the x-axis is associated with a reduction in the	
variable measured along the y-axis.		
Answer: A		
444) Along a curve, when one variable increases, the relationship has	other variable decreases. The curve showing this	444)
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 gr	aph showing the relationship between interest rates	445)
and spending would have	D) a parativa than a pasitiva alana	
A) an inverse relationship.C) a negative slope.	B) a negative then a positive slope.D) Both answers A and C are correct.	
Answer: D	_,	
		446)
446) "As the price of gasoline increases, fewer people buy cars that are gas guzzlers." A graph showing 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 machines increase, people use them less frequently. The 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 dov	vn after 5 p.m. and falls further after 11 p.m. As a	448)
· · · · · · · · ·	alls as it gets later each night." A graph showing	
this relationship between long distance phone ra A) a negatively-sloped curve.	ates and the number of calls made would show B) an inverse relationship.	
C) a positively-sloped curve.	D) Both answers A and B are correct.	
Answer: D	,	
(40) As the number of double with submining in the		440)
449) As the number of days without rain increases, the graph showing this relationship shows	ne amount of wheat per acre grown declines. A	449)
A) a positive relationship.	B) a horizontal line.	
C) a vertical line.	D) none of the above	
Answer: D		

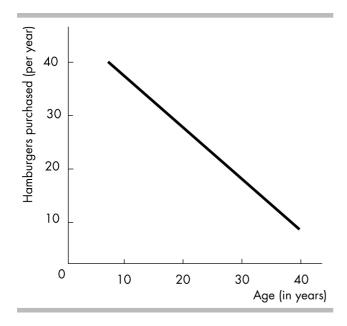
 450) As a firm produces more and more CDs, the average cost of a CD showing the behavior of the average cost of a CD A) would be positively sloped. B) would be horizontal. C) would be positively and then negatively-s D) would be negatively sloped. Answer: D 	D as more CDs are produced	450)
451) Suppose that we find that student grades and tir graph of the relationship between these two vari		451)
 A) upward and may be linear or nonlinear. B) downward and be linear. C) upward and be linear. D) downward and may be linear or nonlinear 		
Answer: D		
452) The faster an automobile is driven (speed), the lo automobile. Given this information, we say that A) an inverse relationship.C) a direct relationship.		452)
Answer: A		
453) As you devote more hours to studying, your sno relationship would show	wboarding skills decrease. A graph of this	453)
A) a negative relationship.	B) a direct relationship.	
C) an inverse relationship. Answer: D	D) Both answers A and C are correct.	
454) If the quantity of wood purchased decreases whe these variables would have	en 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 horizontal axis shows a negative relationship. If and the price of peanut butter was placed on the A) negative relationship, also called a direct read B) positive relationship, also called a direct read C) positive relationship, also called an inverse 	the price of jelly was placed on the vertical axis horizontal axis, the relationship would be a elationship. elationship.	455)

D) negative relationship, also called an inverse relationship.

Answer: D



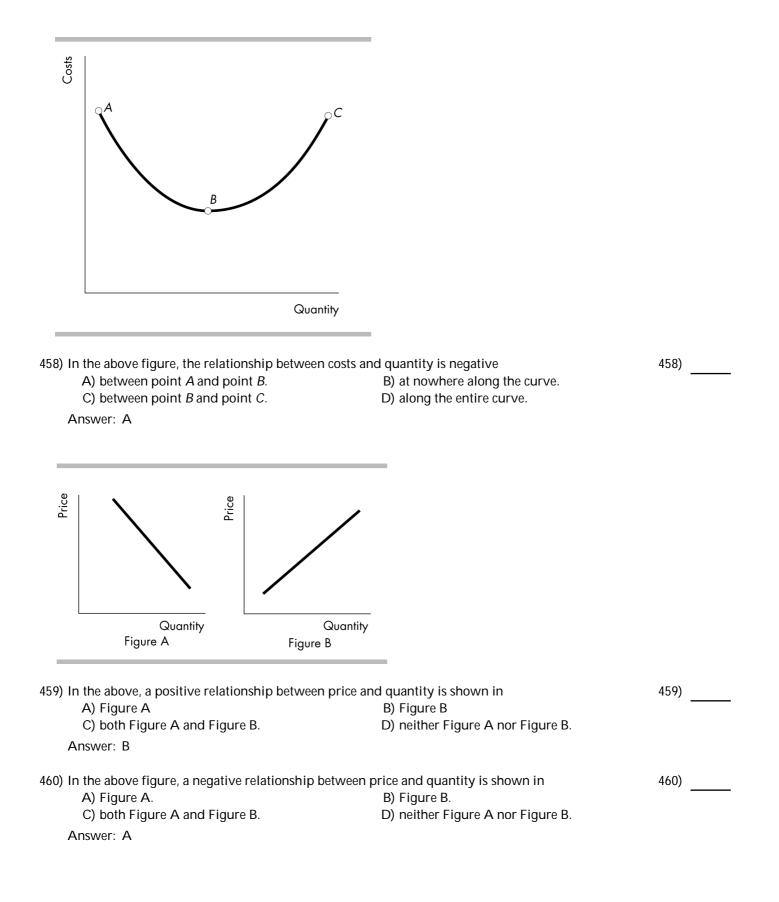
456) In the above figure, a negative relationship is demonstrated in which of the graphs?			456)	
A) Figure A	B) Figure B	C) Figure C	D) Figure D	
Answer: B				



457) The above figure depicts a

- 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



461) If a graph shows a negative relationship between two variables which then becomes a positive		461)
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 (average cost) decreases and then increases. 462) Average cost and output have

B) no relationship.

D) a linear positive relationship.

A) a relationship with a maximum.

C) a relationship with a minimum.

Answer: C

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

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

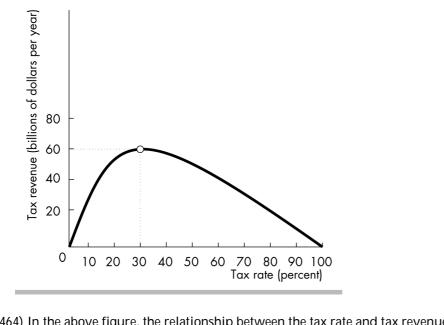
A) 1910s and 1970s.

C) 1930s and 1970s.

B) 1950s and 1980s.D) 1960s and 1970s.

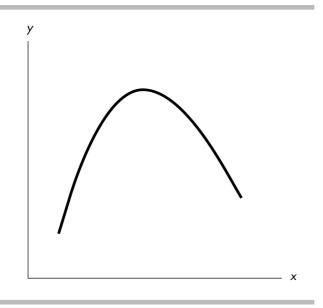
Answer: C

463) _____



464) In the above figure, the rela less steep between tax rates	•	e tax rate and tax revenue i	s positive and becoming	464)
A) 30 percent and 100 per		B) 0 percent and 30	percent.	
C) 0 percent and 100 perc			e answers are correct.	
Answer: B				
465) In the above figure, if the ta	x rate is increased fr	om 20 percent to 30 percen	t, tax revenue	465)
 A) may increase or decrease 	ase.	B) is constant.		
C) increases.		D) decreases.		
Answer: C				
466) In the above figure, tax reve	enue is at a maximur	n 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 ma	aximum point, the sl	ope will		467)
A) increase before and af	ter the maximum po	int.		
 B) remain constant on eit 	her side of the maxi	mum point.		
C) be negative, then posi	tive after the maxim	um point.		
D) be positive, then nega	tive after the maxim	um point.		

Answer: D



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

- 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

468)

469)

- 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

	Average cost of
Total number 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

A) no relationship.

B) first a negative and then a positive relationship.

C) a horizontal line.

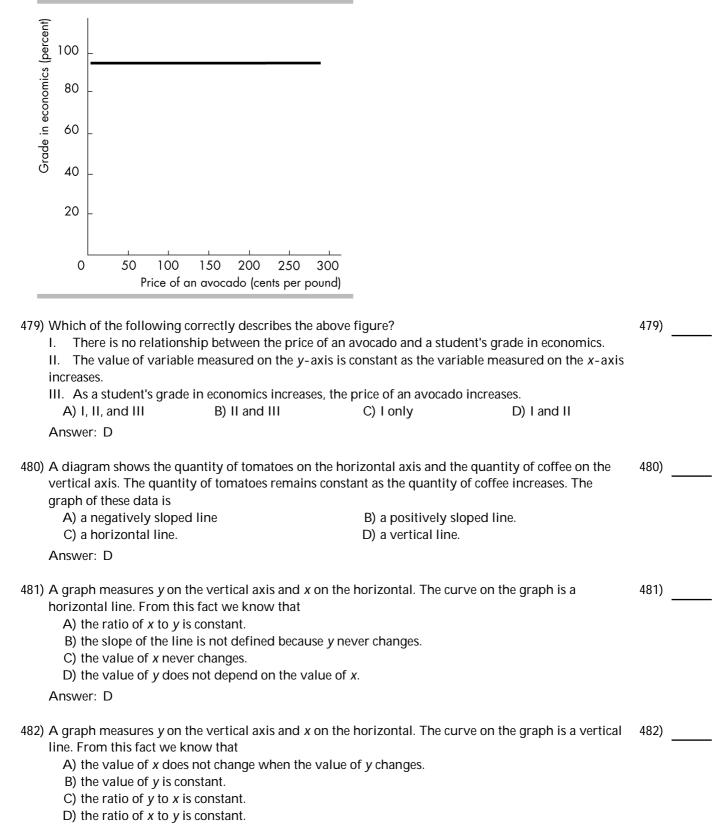
D) a linear relationship.

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

171) The table above gives productivity growth rate data for the nation of Alachua. The year when the			471)	
growth rate was de A) 1990.	finitely at a minimum was B) 2000.	C) 1996.	D) 1992.	
Answer: D				
472) The table above gives productivity growth rate data for the nation of Alachua. The year when the growth rate was definitely at a maximum was				472)
A) 1994.	B) 1990.	C) 1997.	D) 2000.	
Answer: A				
473) The table above gives productivity growth rate data for the nation of Alachua. Between 1994 and 1997, the trend in productivity growth was			473)	
A) flat.	B) negative.	C) positive.	D) vertical.	
Answer: B				

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



Answer: A

 483) The graph of two variables, x and y, is a horiz A) falsely related. C) negatively related. 	zontal line. 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 me variable measured on the x-axis increases. Th A) line with slope equal to zero. C) perpendicular line. 	<u> </u>	484)
Answer: A		
 485) An independent relationship between two va A) a horizontal or a vertical line. C) an upward-sloping line. 	riables is shown in a graph by B) a steeply sloped line. D) a downward-sloping line.	485)

Answer: A

/		
	1	
		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 decreases.

D) the x variable increases.

Answer: A

487) A graph shows the price of a pound of cucumbers on the vertical axis and the quantity of new cars sold by GM on the horizontal axis. The price of a pound of cucumbers remains constant as the quantity of new cars sold increases. The graph of these data is

A) a vertical line.

C) a positively-sloped line.

B) a horizontal line.

D) a curve with a maximum.

Answer: B

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

- A) be a horizontal line.
- C) be either a vertical or horizontal line.

Answer: C

y

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

A) There is a positive relationship between *x* and *y*.

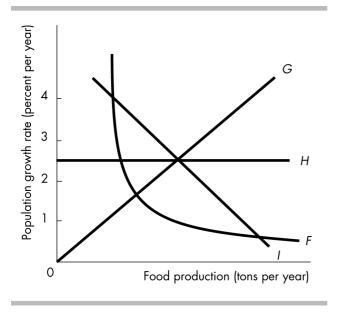
B) There is no relationship between *x* and *y*.

C) There is a negative relationship between *x* and *y*.

D) None of the above answers are correct.

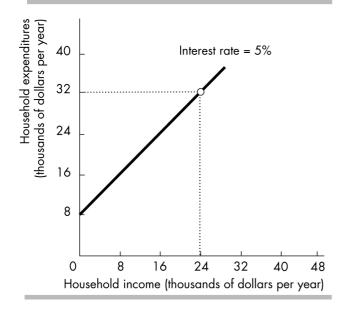
Answer: B

- B) have a constant positive slope.
- D) be a vertical line.



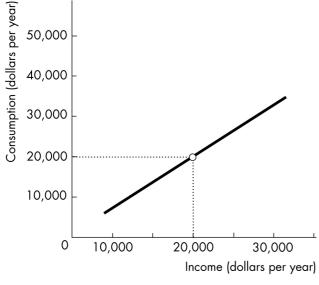
490) In the above figure, which curve indicates that the level of food production does not affect the 490) ______

A) <i>F</i>	B) /	C) <i>G</i>	D) <i>H</i>
Answer: D			



491) In the above figure, the relationship between income and expenditures is
A) negative.491)
D) independent.491)
-
Answer: B

 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. 		492)
Answer: B		
493) If variables x and y move up and down together,A) trend related.C) negative related.Answer: D	they are B) unrelated. D) positively related.	493)
 494) The term "direct relationship" means the same as A) correlation. C) positive relationship. Answer: C 	B) negative relationship. D) trend.	494)



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

A) positive and linear.C) negative and linear.

B) negative and nonlinear.D) positive and nonlinear.

Answer: A

у			
5 -			
4 -			
3 -			
1 -			
0 1 2 3 4 5 6			
496) The figure above shows			496)
A) a time-series relationship.C) a positive relationship.	B) a negative relationshD) no relationship between	-	
Answer: B	_) i o a a a a a a a a a a a a a a a a a a		
497) The relationship between two variables, x and y , is a	vertical line. Thus y and y	/ are	497)
A) negatively correlated.	B) positively correlated.		4 <i>71</i>)
C) falsely related.	D) not related.		
Answer: D			
498) The slope of a line equals the	de altrictula al la contra a de aconoció		498)
A) change in the variable measured along the y-ax measured along the x-axis.	divided by the change	In the variable	
B) change in the variable measured along the x -ax	is multiplied by the chang	ge in the variable	
measured along the <i>y</i> -axis. C) change in the variable measured along the <i>x</i> -ax	kis divided by the change i	in the variable	
measured along the y-axis.			
D) change in the variable measured along the x-ax along the y-axis.	kis minus the change in the	e variable measured	
Answer: A			
499) "The change in the value of the variable measured or	the v-axis divided by the	change in the value	499)
of the variable measured on the x-axis" is the definiti	on of		
A) slope. B) a curve.	C) a graph.	D) a relation.	
Answer: A			

axis) is A) zero. B) the percentag C) the change in	re between Y (measured on the ver ge change in Y divided by the perce Y divided by the initial value of X Y divided by the change in X.		500)
Answer: D			
	ve showing the relationship betwee	the number of concerts you wish to attend en these two variables would have B) a negative slope. D) NONE OF THE ABOVE IS correct.	501)
FOO) The close of a line			500)
the value of t B) is always a co C) can never equ	he x-axis variable. onstant. Jal zero.	the <i>y</i> -axis variable relative to the change in re to the value of the <i>x</i> -axis variable.	502)
Answer: A			
C) constant as lo D) undefined.	tive relationship is e right of the maximum point and ong as the relationship is nonlinear.	-	503)
Answer: A			
A) As x increaseB) As x increase	s, y equals a positive number.	ositive?	504)
variable measured A) upward-slop B) downward-s C) downward-s	on the <i>y</i> -axis, the line is ping; small loping; small	kis is associated with a small change of the and the slope is	505)
y-axis and x is me	asured on the x-axis, and the relati e is positive and is less than 1. This y.	two variables y and x. y is measured on the onship between then is a line. Suppose that slope means that a change in x is associated B) a smaller change in y. D) an equal change in y.	506)

 507) Suppose we are considering the relationship be y-axis and x is measured on the x-axis, and the the slope of the line is equal to 1. This slope me A) a change in x is associated with a bigger of B) a change in x is associated with an equal of C) a change in x is associated with a smaller D) a change in x is associated with no change Answer: B 	e relationship between then is eans that change in y. change in y. change in y.		507)
 508) Suppose we are considering the relationship be y-axis and x is measured on the x-axis, and the the slope of the line is greater than 1. This slope A) a change in x is associated with an equal B) a change in x is associated with a smaller C) a change in x is associated with no change D) a change in x is associated with a bigger of Answer: D 	e relationship between then is e means that change in y. change in y. e in y.	-	508)
 509) In which of the following cases is the slope of a A) As the variable measured on the <i>y</i>-axis in not change. B) As the variable measured on the <i>y</i>-axis in decreases. C) As the variable measured on the <i>x</i>-axis decreases. D) As the variable measured on the <i>x</i>-axis in decreases. Answer: C 	ncreases, the variable measure ncreases, the variable measure lecreases, the variable measur	ed on the <i>x</i> -axis does ed on the <i>x</i> -axis ed on the <i>y</i> -axis	509)
510) In a graph, a line has a negative slope ifA) the line is horizontal.C) the line is vertical.Answer: B	B) the line rises from D) the line rises from	-	510)
 511) Suppose that for a curve, as the variable measures on the <i>y</i>-axis decreases. The curve has a A) tangent B) positive Answer: D 		ne variable measured D) negative	511)
 512) If the slope of the relationship between savings A) savings and interest rates have an inverse B) savings and interest rates have no relation C) savings and interest rates have a positive D) savings and interest rates have a negative Answer: C 	e relationship. nship. relationship.		512)
 513) If an increase in x (the variable on the horizontal variable on the vertical axis) from 4 to 3 units, t A) -2. B) 2. Answer: C 	-	es a decrease in y (the D) 1/2.	513)

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-	pe of the 514)
relationship between $x = 0$ and $x = 2$ is	_

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
Answor: B	·	·	

Answer: B

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

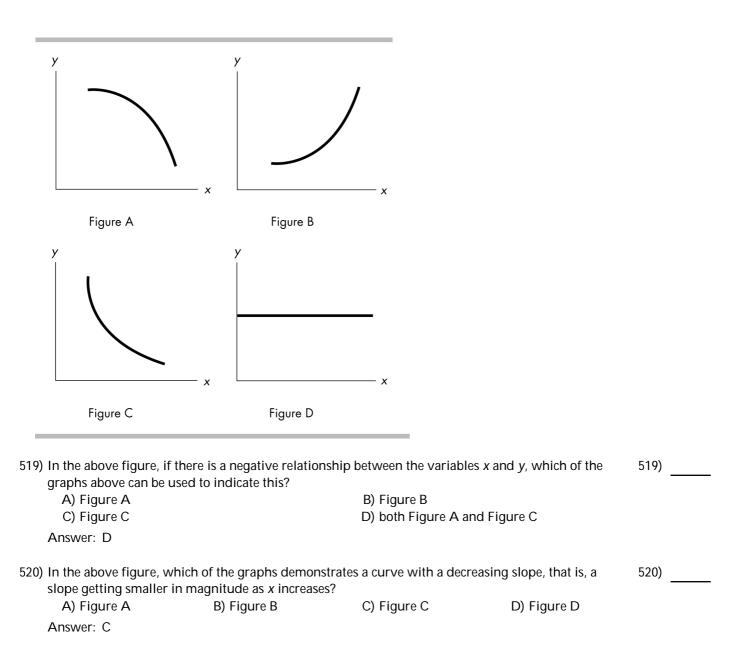
516) In the table above, Y points a and b is	is measured along the y-	axis and X along the x-a	kis. The slope between	516)
A) -0.25.	B) 0.25.	C) 4.	D) 25.	
Answer: B				
517) In the table above, Y points c and d is	' is measured along the y-	axis and X along the x -axis	kis. The slope between	517)
A) 0.	B) 0.25.	C) -4.	D) 100.	

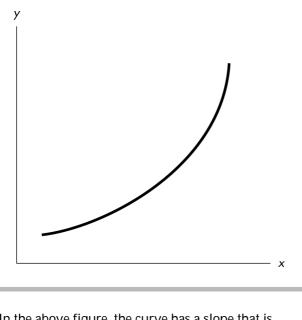
Answer: A

518) In the table above, Y is measured along the y-axis and X along the x-axis. The slope between
points e and f is
A) -25.B) 4.C) -0.25.D) 0.25.

518)

Answer: C

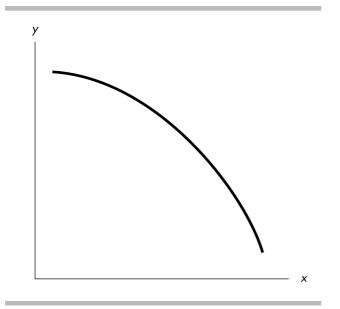




521)

- 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



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

X	у
0	4
1	5
2	8
3	13
4	20

523) In the above table, the vertical axis, the slope	relationship between x an between $y = 5$ and $y = 8$ is	5	y measured on the	523)
A) negative; 6	B) positive; 5	C) positive; 3	D) negative; 8	
Answer: C				
524) The slope of a straight	line is			524)
A) variable.	B) increasing.	C) constant.	D) decreasing.	
Answer: C				
525) The slope of a straight	line is			525)
 A) always equal to z 	zero.	B) constant.		
C) calculated as y/x	at any point.	D) always greater t	han zero.	
Answer: B				

C) is the change in th	nging. The line makes with the The value of the variable Ible measured along the	measured on the y-axis	divided by the change in the	526)
527) With y measured on th line is defined as A) (change in x)/ (ch C) y/x. Answer: B		asured on the horizontal B) (change in y) D) x/y.		527)
528) The slope of a straight A) 23. Answer: A	line is 3/4. When <i>x</i> equa B) 26.	ls 20, y equals 14. When C) 9.	x equals 32, y equals D) 17.	528)
529) The slope of a straight A) 39. Answer: C	line is 3. When <i>x</i> equals B) 30.	10, <i>y</i> equals 33. When <i>x</i> C) 36.	equals 11, y equals D) 27.	529)
530) Along a straight line, w slope of the straight lin A) -3. Answer: B		equals 30. When <i>x</i> equal C) -1/3.	s 120, then y equals 40. The D) 3.	530)
531) Along a straight line, th A) 1. Answer: A	ne value of y is always e B) infinite.	qual to the value of <i>x</i> . Th C) 0.	ne slope of the line is D) -1.	531)
B) an independent r C) no relationship b	nship between y and x. elationship between y a			532)
B) no relationship b C) a negative relatio	elationship between y a			533)

534) The change in y = -20, and the change in x = -4. Thus there is

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 535) ______ y to *x* is

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 536) would be

A) 5/3.

B) 3.

C) 3/5.

D) impossible to determine from the information given.

Answer: C

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

537) The above table gives data on two variables. If these data were graphed, the slope of the line would 537) be

A) 1. B) 2. C) -2.

Answer: B

D) -4.

538) The above table gives data on two variables. If these data were graphed, their relationship would

A) be a straight line.

C) be a curved line.

Answer: A

x-variable	y-variable
(on the horizontal axis)	. ,
100	50
200	125
300	200

539) The above table shows data on two variables. If these data were graphed, the slope of the line 539) ______

A) 1/2.	B) 3/4.	C) 4/3.	D) 2/3.
Answer: B			

Quantity	Price
0	50
8	40
16	30
24	20
32	10
36	5

540) Using the data in the above table,

A) an increase in price is likely to cause an increase in quantity.

B) the variables quantity and price are neither positively nor negatively related.

C) the variables quantity and price are negatively related.

D) the variables quantity and price are positively related.

Answer: C

A) 8.0. B) -8.0. C) 0.8. D) -1.25.

Answer: D

538)

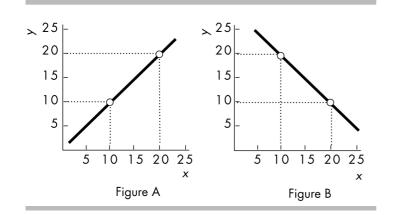
540)

B) nonexistent.

D) show a negative relationship.

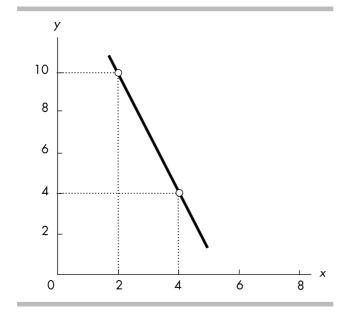
Income	Amount spent on
(dollars per	restaurant meals
month)	(dollars per month)
50	20
100	40
150	60
200	80

 542) Using the data in the a meals is on the y-axis, A) horizontal. C) vertical. Answer: B 543) Using the data in the a 	the graph of the two v	variables would be B) upward slopir D) downward slo	ng. oping.	542)
	the slope of the straig		ant spent on restaurant	
A) 0.2.	B) 0.5.	C) 2.5.	D) 0.4.	
Answer: D <u>x y</u> <u>100 500</u> <u>200 300</u> <u>300 100</u>	-			
400 -100	-			
544) Based on the information in the table above, what is the relationship between x and y? A) inverse B) direct C) positive D) No relationship exists between x and y.				544)
Answer: A				
545) Using the information A) 5 Answer: B	in the table above, wh B) -2	at is the value of the slope b C) 2	Detween x and y? D) -0.5	545)



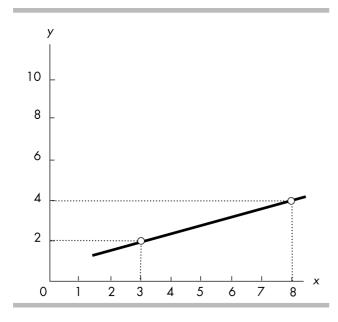
546) In the above, which figure shows a linear relationship?			
A) Figure A	B) Figure B		
C) both Figure A and Figure B	D) neither Figure A nor Figure B		
Answer: C			

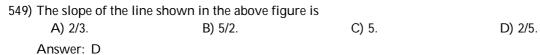
547) In the above, which figure shows a line with a slope	of 1.0?	547)
A) Figure A	B) Figure B	
C) both Figure A and Figure B	D) neither Figure A nor Figure B	
Answer: A		



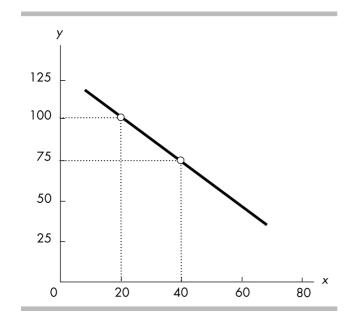
548) The slope of the line shown in the above figure is			
A) -3.	B) -1.	C) -5.	
Answer: A			

D) -1/3.





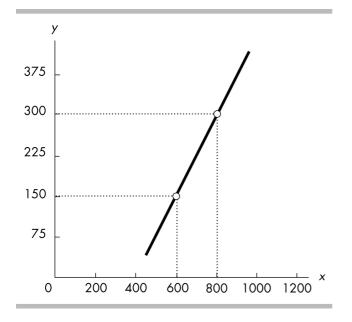


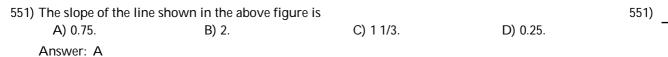


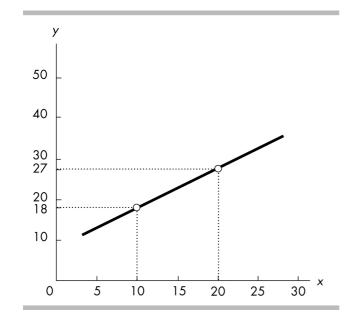
 550) The slope of the line shown in the above figure is
 550)

 A) -1 1/3.
 B) -1.25.
 C) -0.80.
 D) -1 2/3.

 Answer: B
 550)



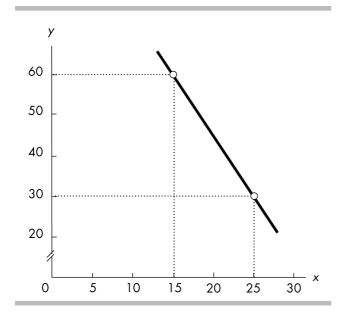


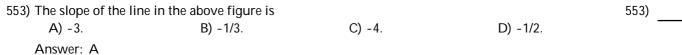


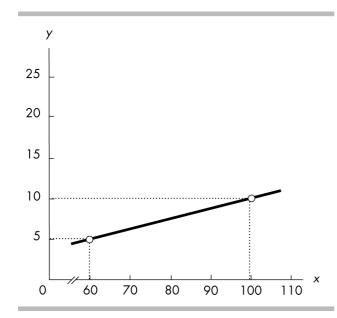
 552) The slope of the line shown in the above figure is
 552)

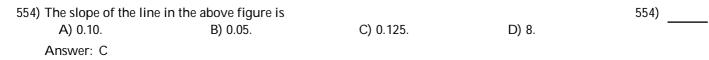
 A) 1.11.
 B) 1.5.
 C) 2.
 D) 0.90.

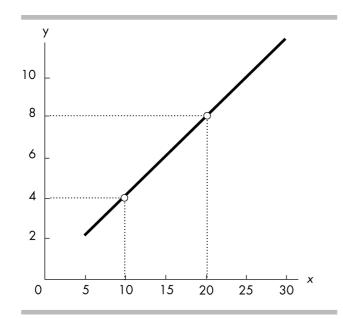
 Answer: D
 D
 D
 D

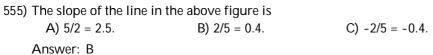






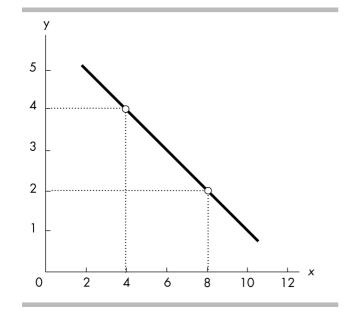


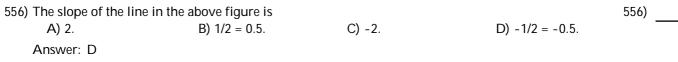


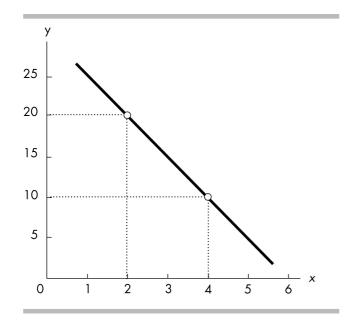




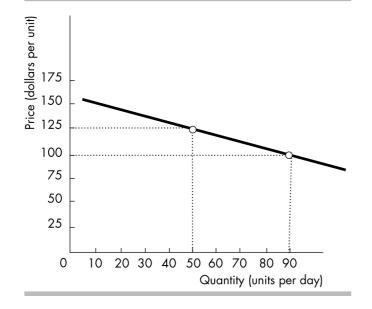
D) -5/2 = -2.5.

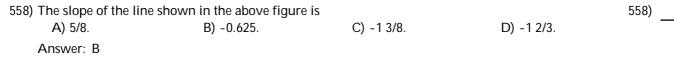


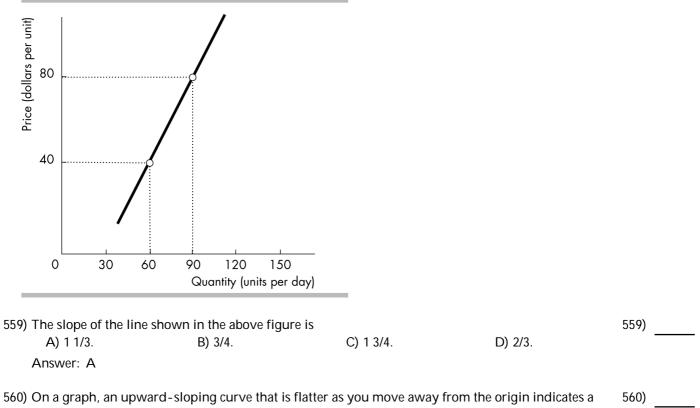












A) negative relationship with an increasing slope.

B) negative relationship with a decreasing slope.

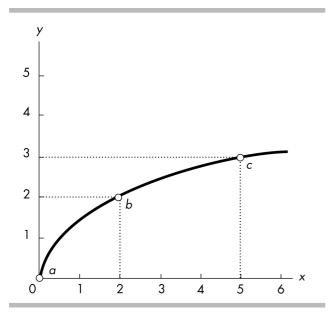
C) positive relationship with a decreasing slope.

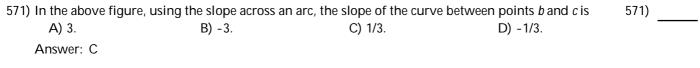
D) positive relationship with an increasing slope.

Answer: C

x		
 561) In the above figure, the curve's slope is A) negative and is becoming less steep. C) positive and is becoming less steep. Answer: C 	B) negative and is becoming steeper.D) positive and is becoming steeper.	561)
 562) If the price of apples is on the vertical axis and the que horizontal axis, the slope between two points on the l and quantity is A) price divided by quantity. B) the change in price divided by the change in que C) the change in quantity divided by the change in D) the change in price multiplied by the change in Answer: B 	ine describing the relationship between price antity. price.	562)
 563) The formula for the slope across an arc is used to app A) a negative relationship only. C) a positive relationship only. Answer: B 	roximate the slope for B) a curved line. D) linear relationships only.	563)
 564) The slope of a curved line can be approximated by A) the slope across an arc from one point on the cu B) the average of the variable measured along the <i>x</i>-axis. C) the average of the variable measured along the <i>y</i>-axis. D) the inverse of the straight-line method. Answer: A 	y-axis divided by the average of the variable	564)

у 			
10			
9 _ d			
8			
7			
6			
5			
4			
$1 \mid a \mid $			
0 1 2 3 4 5 6 7 8 9 10 ×			
565) In the above figure, the slope across the arc between	cand d is		565)
A) 1/2. B) 4/3.	C) 1.	D) 2.	
Answer: A	,		
566) In the above figure, the slope across the arc between		ג/ט	566)
A) 1. B) 1/2. Answer: A	C) 2.	D) 2/3.	
Allsweit. A			
567) In the above figure, the slope across the arc between	a and b is		567)
A) 5/2. B) 3/2.	C) 2/5.	D) 1.	
Answer: A			
568) In the above figure, the slope at point b is			568)
A) between 1 and 5/2.	B) greater than 5/2.		
C) 5/2.	D) 1.		
Answer: A			
569) In the above figure, the relationship between x and y	ic		569)
A) positive, with slope increasing as x increases.	12		509)
B) negative, with slope increasing as x increases.			
C) positive, with slope decreasing as x increases.			
D) negative, with slope decreasing as <i>x</i> increases.			
Answer: C			
570) The slope in the above figure is			570)
A) negative and decreasing.	B) positive and increasi	ng.	·
C) positive and decreasing.	D) negative and increase	ng.	
Answer: C			

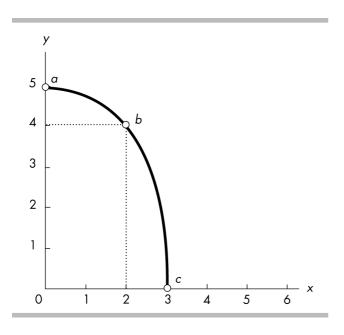




 572) In the above figure, using the slope across an arc, the slope of the curve between points a and c is
 572)

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

 Answer: C
 C
 C) 3/5.
 C) 3/5.

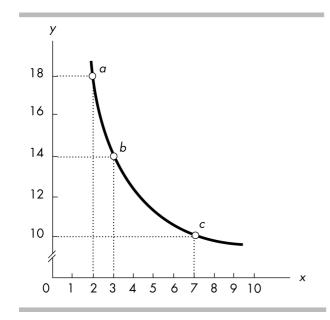


 573) In the above figure, using the slope across an arc, the slope of the curve between points a and b is
 573)

 A) -2.
 B) 1/2.
 C) -1/2.
 D) 2.

 Answer: C
 C

574) In the above figure,	using the slope across an	arc, the slope of the curve b	between points <i>a</i> and <i>c</i> is	574)
A) 5/3.	B) -5/3.	C) -3/5.	D) 3/5.	
Answer: B				

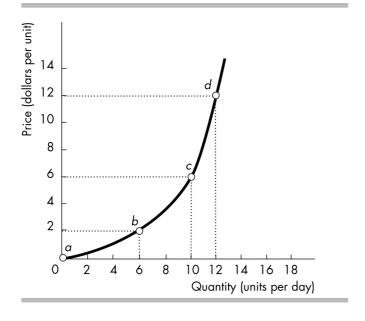


575) In the above figure, the slope across the arc between *a* and *b* is A) -4. B) 1. C) 1/4. Answer: A



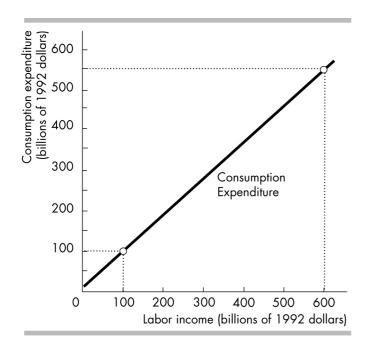
575)

576) _____



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			577)
A) lies between 1	and 2.	B) lies between	1/3 and 1.	
C) equals 1.		D) exceeds 2.		
Answer: B				
578) In the above figure,	the slope across the arc	between <i>c</i> and <i>d</i> is		578)
A) 12/11.	B) 4.	C) 3.	D) 1/6.	
Answer: C				
579) In the above figure,	the slope across the arc	between <i>a</i> and <i>b</i> is		579)
A) 1/3.	B) 3.	C) 1.	D) 3/5.	
Answer: A				



580) In the above figure,

A) consumption expenditures are a linear function of labor income.

B) consumption expenditures are positively related to labor income.

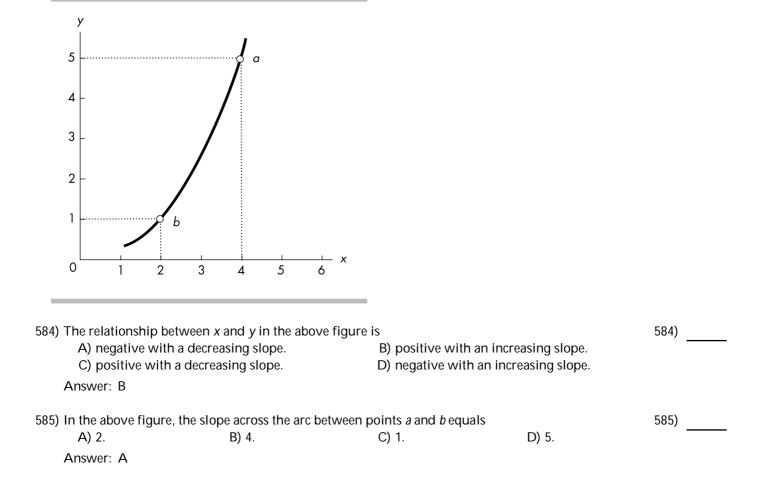
C) the slope of the function depicted is 0.9.

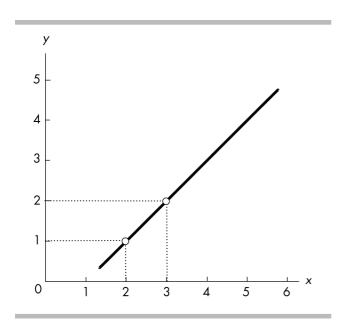
D) All of the above answers are correct.

Answer: D

580)

set for the state of the state			
581) The slope of the line in the above figure is A) -4. B) 1.0. Answer: B	C) -1.0.	D) -2.5.	581)
 582) The slope of a negative relationship is 582) The slope of a negative relationship is A) undefined. B) constant as long as the relationship is nonline C) negative. D) positive to the right of the maximum point and 		ft.	582)
Answer: C			
583) A linear relationshipA) never has a constant slope.C) always slopes up to the right.Answer: D	B) always has a D) always has a		583)



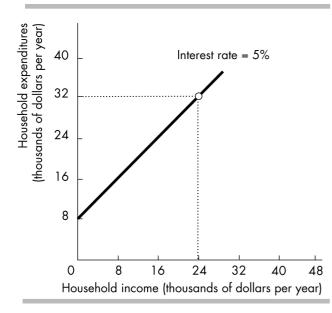


586) In the above figure	e, between $x = 2$ and $x = 3$,	what is the slope of the lir	ne?	586)
A) 1	B) -1	C) 3	D) 2	
Answer: A				

 587) In the above figure, how does the slope of the line bet 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 	ween <i>x</i> = 4 and <i>x</i> = 5 compare with the slope	587)
588) Ceteris paribus when graphing a relationship refers toA) changing the origin of the graph.C) holding constant all but two variables.Answer: C	B) rescaling the coordinates. D) letting all the variables change at once.	588)
 589) In evaluating a relationship between x and y, ceteris p. A) move in opposite directions to x and y. C) are not relevant to x and y. Answer: D 	aribus means other variables B) move with <i>x</i> and <i>y</i> . D) are not changing while <i>x</i> and <i>y</i> change.	589)
 590) On a graph showing the relationship between x and y 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 	r, the <i>ceteris paribus</i> condition implies that	590)
 591) Assume that the quantity consumed of pizza is dependent income of pizza purchasers, and consumers' taste for between the price of a pizza and the quantity of pizza A) the price of pizza and quantity consumed of pizza change. B) the price of a pizza and the income of pizza construction to change. C) consumers' taste for pizza and the income of pizza allowed to change. D) None of the above answers are correct. 	pizza. When graphing the relationship consumed za are the only variables that are allowed to sumers are the only variables that are allowed	591)
 592) To graph a relationship among several variables, we huse the assumption. A) one; scarcity C) two; <i>ceteris paribus</i> Answer: C 	nold all but variable(s) constant and B) one; <i>ceteris paribus</i> D) three; marginal benefit	592)
 593) If consumption expenditures are positively related to were higher than that corresponding to the function in A) consumption expenditures would be the same a above. B) consumption expenditure would be higher at ar C) consumption expenditure would be lower at an above. 	n the above figure, t any level of labor income as that depicted ny level of labor income than depicted above.	593)

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	594)	
income and expenditure,		

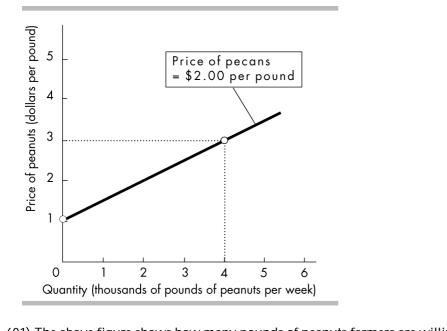
- A) the interest rate is held constant.
- B) household expenditures are held constant.
- C) household income is held constant.
- D) no variable is held constant.

Answer: A

- - A) shift the line vertically downward.
 - C) cause no change in the line's position.
- B) shift the line vertically upward.
- D) make the line negatively sloped.

Answer: A

luterest rate (percent)		Household Income = \$40,000			
	0 20 3 ehold consumpt	0 40 50 60 ion (thousands of dollars			
596) The slope o A) indep Answer: B		above figure is B) negative.	C) positive.	D) direct.	596)
	•	the interest rate is 8 pe	rcent and household inc	ome is \$40,000, household	597)
A) \$35.00 Answer: D		B) \$60,000.	C) \$0.	D) \$20,000.	
A) a decr B) a decr C) a decr	ease in househ ease in the inte	rest rate leads to a dec	at ousehold consumption t rease in household inco s to a decrease in interes	me.	598)
A) house C) no vai		tion is held constant.	ne and interest rates. In t B) interest rates a D) household inco		599)
related to th A) shift t	-	then an increase in ho rd.		5	600)



601) The above figure shows how many pounds of peanur per pound of peanuts. If the price of a pound of pean \$2, peanut farmers are willing to sell	0	601)
	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 t	he relationship between the price of a pound	602)
	of peanuts and the quantity sold, the		
	A) price of a pound of pecans is held constant.	to at	
	B) quantity of peanuts that farmers supply is consC) price of a pound of peanuts is held constant.	lant.	
	D) Both answers A and B are true.		
	Answer: A		
603) In the figure above, suppose the price of a pound of p	becans is negatively related to the quantity of	603)
	peanuts that farmers are willing to supply. If the price		·
	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

У		
5		
³		
z = 4		
z = 3		
0 1 2 3 4 5 6	X	
504) In the above figure, <i>x</i> 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 rel	ated to z.	
D) positively related to y and negatively rel	ated to z.	
Answer: C		
05) In the figure above, <i>ceteris paribus</i> , an increase	in x is associated with	605)
A) a decrease in y.	B) a decrease in z.	, <u> </u>
C) an increase in y.	D) None of the above answers is correct.	
Answer: C		
06) In the figure above, an increase in z leads to a		606)
A) shift rightward in the line showing the re	elationship between x and y	
B) movement up along one of the lines show		
C) movement down along one of the lines s		
D) shift leftward in the line showing the rel		
Answer: A	. ,	

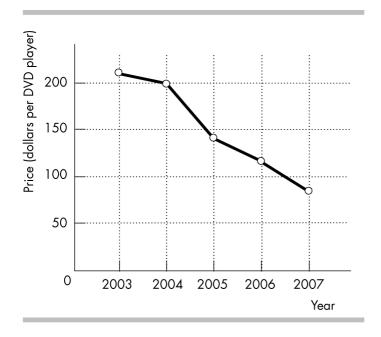
ESSAY. Write your answer in the space provided or on a separate sheet of paper.

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.



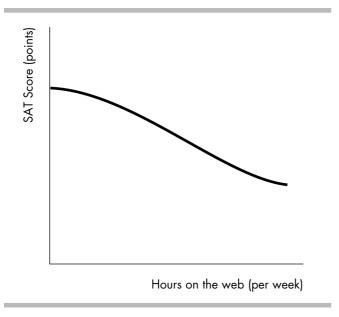
- 615) The figure above shows the price of a DVD player from 2003 to 2007.
 - a) What type of graph is illustrated above?
 - b) What is the trend in the price of a DVD player?

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.

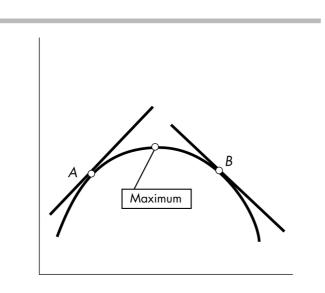


- 616) The figure above shows how the sales of the video game "Tomb Raider—Lara Retires" change when the advertising spent on the game changes. Is the relationship between advertising and the number of games sold positive, negative, or neither? Explain your answer.
 - Answer: The figure shows that there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



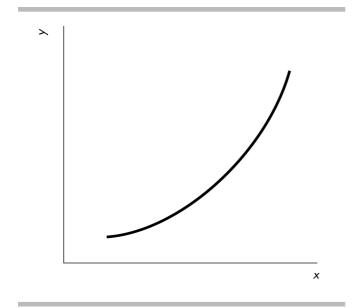
- 617) The figure above shows how the relationship between the number of hours per week a high school student spends on the web and the student's SAT score. Is the relationship between hours on the web and the SAT score positive, negative, neither? Explain your answer.
 - Answer: The figure shows that 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 th 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 c 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 (dollars per year)	Katie's purchases (books per year)
50,000	14
70,000	16
90,000	18
110,000	20

/			

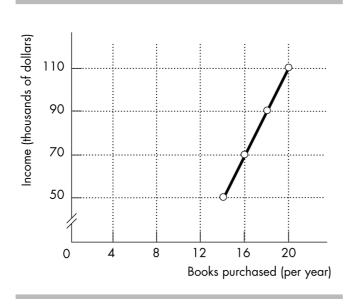
621) The table above shows how the number of books Katie buys each year depends on her income.

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.



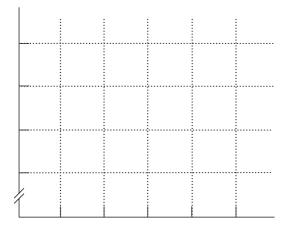
b) The relationship is plotted in the figure above.

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 ir 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.

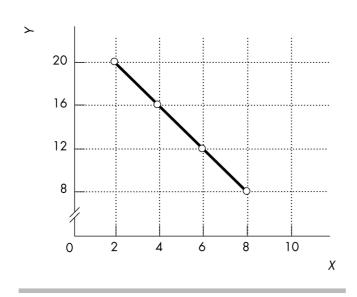
X	Y
2	20
4	16
6	12
8	8



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

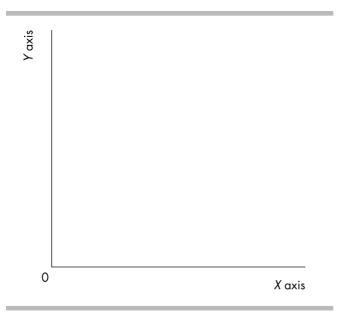
- a) Is the relationship between X and Y positive or negative?
- b) What is the slope when X = 4?
- c) What is the slope when X = 8?

Answer:

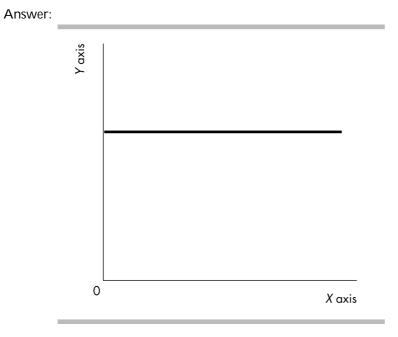


The figure labels the axes and graphs the relationship.

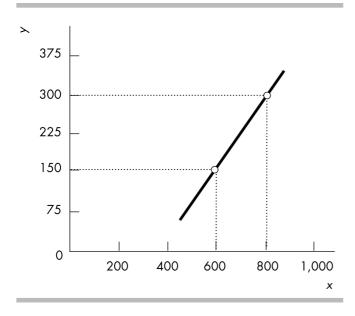
- a) The relationship between *X* and *Y* is negative.
- b) The slope equals -2.
- c) The slope equals -2.



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

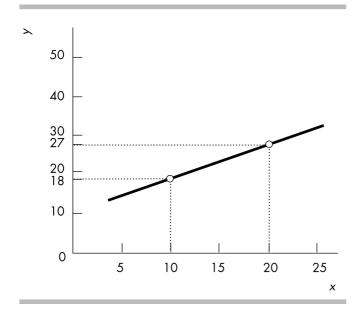


A horizontal line has a slope of zero. The figure above shows a horizontal line with a slope of zero.



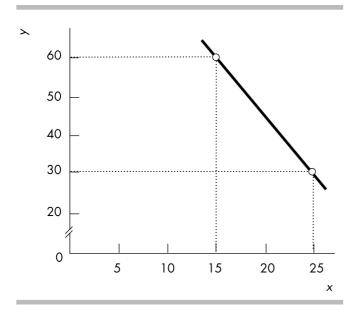
624) What does the slope of the line shown in the above figure equal?

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.



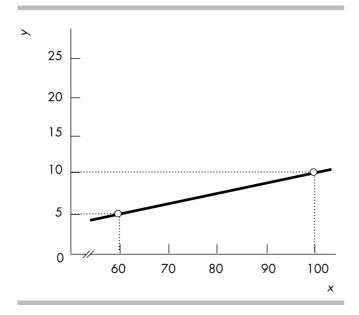
625) What does the slope of the line shown in the above figure equal?

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.



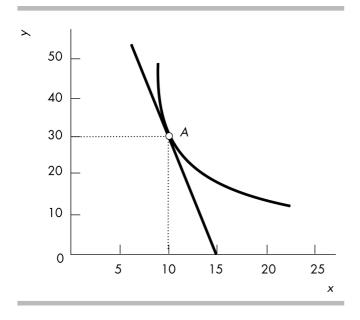
626) What does the slope of the line shown in the above figure equal?

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?

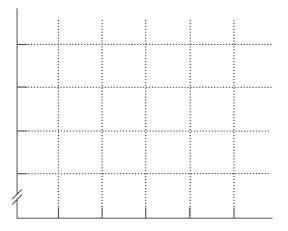
Answer: The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (5 - 10)/(60 - 100) = 0.125.



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	



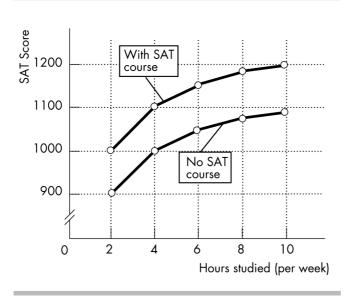
629) Jamie is preparing to take his SAT tests. The table above shows how Jamie's score depends on the number of hou week Jamie studies.

- 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 gra	630)	
Answer: True 🥥	False	
631) A scatter diagram plots	the value of one economic variable against time.	631)
Answer: True 🥝	False	
632) A time series graph can changes over time.	show both the level of a variable and the speed with which the variable	632)
Answer: 🥥 True	False	
, 0	dency for a variable to increase or decrease over time. False	633)

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634)	A cross-section grap time.	h can show how economic variables for different groups of people vary over	634)
	Answer: True	False	
635)	If the <i>x</i> -axis variable negatively related.	e increases while the y-axis variable decreases, the variables x and y are	635)
	Answer: 🥥 True	False	
636)	A graph cannot be us Answer: True	sed to show that two variables are unrelated. False	636)
637)	When graphed, varia Answer: <a>O True	ables that are unrelated are shown by either a horizontal or a vertical line. False	637)
638)	The slope of a line is Answer: • True	the change in the y-axis variable divided by the change in the x -axis variable. False	638)
639)	The slope of a straigh Answer: True	nt line increases as the numbers on the <i>x</i> -axis become larger.	639)
640)	To calculate the slope an arc of the curve.	e of a curved line, you can calculate the slope at a point on the curve or across	640)
	Answer: 🥝 True	False	
641)	If the change in the y line is 1/2.	x-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 change in the y line is 6/5.	x-axis variable is 6 and the change in the x -axis variable is 5, the slope of this	642)
	Answer: 🥝 True	False	
643)	To graph a relationsh assumption.	nip that involves more than two variables, we use the "ceteris paribus"	643)
	Answer: 🧟 True	False	
644)	" <i>Ceteris paribus</i> " refer must be held constar	rs to the idea that if more than two variables are graphed, only one variable nt.	644)

Answer: True Salse