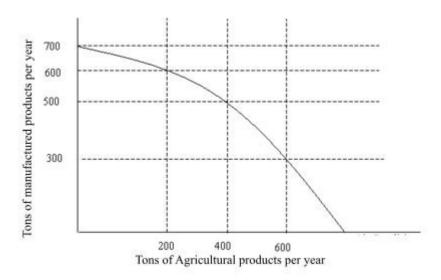
LTIPLE CHOICE.	Choose the one alternative that b	est completes the state	ment or answers the ques	tion.
1) The opportu	nity cost of something is:			1)
	ou sacrifice to get it.	B) the price charge		
C) the cos	t of the labor used to produce it.	D) the search cost	required to find it.	
2) The principle	e of opportunity cost:			2)
	relevant in economics.			
•	e relevant for firms than for individu	uals.		
	icable to all decision making.			
D) only re	fers to monetary payments.			
	e that the cost of something is equal		_	3)
	ble of opportunity cost.	B) reality principle		
C) princip	ble of diminishing returns.	D) marginal princi	ple.	
4) The saying tl	hat "There's no such thing as a free l	lunch" refers to the:		4)
	er principle.	B) principle of opp		
C) margin	nal principle.	D) reality principle	e.	
5) Suppose that	t your tuition to attend college is \$1	0,000 per year and you	spend \$4,000 per year on	5)
	oard. If you were working full time,		per year. What is your	
	cost of attending college for one year			
A) \$34,000	B) \$14,000	C) \$24,000	D) \$30,000	
6) Suppose that	t your tuition to attend college is \$5,	,000 per year and you s	pend \$5,000 per year on	6)
	oard. If you were working full time,	you could earn \$22,000	per year. What is your	
	cost of attending college?			
A) \$30,000	B) \$35,000	C) \$27,000	D) \$13,000	
	is job as a salesman where he made			7)
	s business expenses are \$6,000 per y	_		
	ear on part-time help. As for his per			
	l his personal bills are an extra \$1,20	00 per year. What is Mar	k's opportunity cost of	
running the		G)	D) #65 000	
A) \$43,000	B) \$57,000	C) \$71,000	D) \$65,000	
	yed individual decides to spend the	e day fishing. The oppor	rtunity cost of fishing is	8)
equal to:	to Chest and annually an arrangement			
•	t of bait and any other monetary exp	•		
	ecause the person doesn't have a job t of bait, any other monetary expens		bost alternative use of	
•	lividual's time.	ses, and the value of the	best afternative use of	
	ue of the individual's wages while h	ne was working.		
9) The opportu	unity cost of going to college:			9)
	ame for all students at a particular s	school who pay full tuit	ion.	·/
	Il to the cost of tuition, room and bo			
_	if your parents pay your tuition.	, I		
	es wages you lose by going to schoo	ol instead of working.		
10) Pat claims to	o save a great deal of money on groo	reries by traveling to var	rious supermarkets to	ma ke her
_0, _ 00 0000000	and a great deal of money on grot	, , ciii ig to vai		110 1101

purchase s at their advertise d sale prices. She might visit as many as five different stores in one day in order		
to complete her weekly		
shopping . Her savings are not as great as she		
may think they are if she		
does not consider the:		
	A) cost of the gasoline in driving from one store to another.B) value of the time she is spending doing the shopping as opposed to other things.C) mileage she is putting on her car driving from one store to another.D) all of the above	
11)	Five years ago Tammy always took a big envelope full of coupons to the grocery store. Now she has a preschooler and rarely brings coupons. Which of the following is <i>not</i> a possible explanation of this change in her behavior? A) The opportunity cost of clipping coupons has risen above their monetary value. B) Fewer coupons appear in the newspapers than five years ago. C) Grocery prices have decreased. D) The opportunity cost of grocery shopping has decreased.	11)
	Nancy and Melissa both have broken light fixtures in their living rooms. Nancy opts to hire an electrician, while Melissa spends two hours replacing the fixture herself. Which of the following is a possible explanation of this behavior? A) Nancy dislikes electrical work more than Melissa. B) The opportunity cost of Nancy's time is higher than her cost to hire an electrician. C) Melissa is better at doing electrical work than Nancy. D) All of the above are possible explanations of this behavior.	12)

 13) Suppose that you own a house. What is the opportunity cost of living in the house? A) There is no opportunity cost unless you could set up a business in the house. B) The opportunity cost is the rent you could have received from a tenant if you didn't live there. C) The opportunity cost is the cost of your monthly mortgage payment plus bills. D) There is no opportunity cost because you own the house. 	13)
 14) Steven lives in a big city where there is a shortage of parking. He has a parking spot in his driveway where he parks his car. Which of the following statement is most correct? A) The opportunity cost of using the parking spot is the price he could charge someone else for using the spot. B) The opportunity cost depends on how much Steven's mortgage payment is. C) The opportunity cost of using the parking spot is zero, because Steven owns the house. D) Steven has a lower opportunity cost of owning a car than his neighbor, who must rent a parking spot. 	14)
 15) You have an hour between your economics and math classes. What is the opportunity cost of that time if you use it to do math homework? A) It depends on what you would do if you had no math homework. B) It depends on how much you like math. C) Zero, because an hour isn't long enough to go to a paying job. D) Zero, because it doesn't cost any money to do your math homework. 	15)
 16) You rent a copy of a new action/adventure movie. The rental is for seven days and you watch the movie on the first day. You tell a friend about the film and your friend asks to come over and watch the movie with you before it is due back. What is your opportunity cost of watching the movie a second time? A) Zero, because it won't cost you any money to keep the movie for another day. B) One half the rental cost, because you have already watched the movie one time. C) The answer depends on what else you could do besides watching the movie. D) The answer depends on how much you liked the movie in the first place. 	16)
 17) Jessica, age three, decides to dress up like Sleeping Beauty for Halloween. What is her opportunity cost of this decision? A) the fact that she can't dress up like Barbie, her second choice B) the cost of the costume C) Zero, because three-year-olds do not have opportunity costs D) Impossible to say, because Jessica does not understand what an opportunity cost is 	17)
18) Spending money on a fixed budget is an example of: A) living on the edge.B) how to survive with limited financial resources.C) the principle of opportunity cost.D) a bad thing to do because you run out of money.	18)
19) The saying that: "There is no such thing as a free lunch" refers to: A) the principle of diminishing returns.B) the price of fast food in today's economy.C) the principle of reality in a modern world.D) the principle of opportunity cost.	19)



Figur	e 2.1	
20) Referring to Figure 2.1, if you increase the product affected?	tion of farm goods, what other area is	20)
A) the production of factory goods	B) the wages earned by farm workers	
C) how much people can purchase	D) the price of produce	
21) The production possibilities curve in Figure 2.1 illus	strates the notion of:	21)
A) increased factory goods production.	B) increased farm produce production.	
C) opportunity cost.	D) diminishing resources.	
22) On the production possibilities curve in Figure 2.1 a tons per year from 200 tons to 400 tons and then to of manufacturing goods:	•	22)
A) rises.	B) becomes negative.	
C) falls.	D) is constant.	
23) On the production possibilities curve in Figure 2.1 the opportunity costs of increasing agricultural production from 200 tons to 400 tons is:		23)
A) 600 tons of manufacturing products.	B) 100 tons of manufacturing products.	
C) 500 tons of manufacturing products.	D) 200 tons of manufacturing products.	
24) On the production possibilities curve in Figure 2.1 t agricultural production from 400 tons to 600 tons is		24)
A) 600 tons of manufacturing.	B) 100 tons of manufacturing.	
C) 200 tons of manufacturing.	D) 500 tons of manufacturing.	
25) On the production possibilities curve in Figure 2.1 t production from 700 tons to 500 tons is:	the gain from decreasing manufacturing	25)
A) 200 tons of agriculture.	B) 700 tons of agriculture.	
C) 500 tons of agriculture.	D) 100 tons of agriculture.	
26) On the production possibilities curve in Figure 2.1 t	he gain from decreasing manufacturing	26)
production from 500 tons to 300 tons is:	, , , , , , , , , , , , , , , , , , ,	
A) 200 tons of agriculture.	B) 100 tons of agriculture.	
C) 700 tons of agriculture	D) 500 tops of agriculture	

27) If an economy is fully utilizing its resources, it can produce more of one product only if it: 27) ___ A) produces less of another product. B) adds more people to the labor force. C) doubles manufacturing of the product. D) reduces the prices of the most expensive products. 28) ___ 28) If you remove resources from factory production, the quantity of factory goods will: A) be diverted to other production. B) remain the same but their price will decrease. C) increase. D) decrease. Thousands of 540 people provided with medical care 530 500 450 380 300 1 2 3 4 5 Number of highways Figure 2.2 29) __ 29) Figure 2.2 presents a production possibilities curve for a country that can either produce highways or provide people with medical care in a given year. The opportunity cost of the second new highway built in a year is: A) 500,000 people provided with medical care. B) 50,000 people provided with medical care. C) 30,000 people provided with medical care. D) 40,000 people provided with medical care. 30) Figure 2.2 presents a production possibilities curve for a country that can either produce 30) highways or provide people with medical care in a given year. The opportunity cost of the third new highway built in a year is: A) 50,000 people provided with medical care. B) 90,000 people provided with medical care. C) 10,000 people provided with medical care. D) 450,000 people provided with medical care. 31) Figure 2.2 presents a production possibilities curve for a country that can either produce 31) ____ highways or provide people with medical care in a given year. The opportunity cost of the fourth new highway built in a year is: A) greater than the opportunity cost of the third new highway. B) less than the opportunity cost of the third new highway. C) the sum of the opportunity costs of the first three highways built.

D) the same as the opportunity cost of the third new highway.	
 32) Figure 2.2 presents a production possibilities curve for a country that can either produce highways or provide people with medical care in a given year. The opportunity cost of the fourth new highway built in a year is: A) the same as the opportunity cost of the fifth new highway. B) greater than the opportunity cost of the fifth new highway. C) less than the opportunity cost of the fifth new highway. D) the sum of the first three highways built in a year. 	32)
Houses Yards	
$egin{array}{c c} 0 & 21 \\ 1 & 20 \end{array}$	
2 18	
3 15	
$egin{array}{c c} 4 & 11 \ 5 & 6 \end{array}$	
$\begin{array}{c c} 3 & 0 \\ 6 & 0 \end{array}$	
Table 2.1	
33) A group of people has formed a house cleaning and yard maintenance business. The number of houses or yards that they can clean or maintain in any given day is depicted in Table 2.1. The opportunity cost of cleaning the first house in a day is:	33)
A) 2 yards. B) 20 yards. C) 1 yard. D) 0 yards.	
34) A group of people has formed a house cleaning and yard maintenance business. The number of houses or yards that they can clean or maintain in any given day is depicted in Table 2.1. The opportunity cost of cleaning the second house in a day is: A) 3 yards. B) 18 yards. C) 1 yard. D) 2 yards.	34)
35) A group of people has formed a house cleaning and yard maintenance business. The number of houses or yards that they can clean or maintain in any given day is depicted in Table 2.1. The opportunity cost of cleaning the third house in a day is:	35)
A) 2 yards. B) 3 yards. C) 15 yards. D) 1 yard.	
36) A group of people has formed a house cleaning and yard maintenance business. The number of houses or yards that they can clean or maintain in any given day is depicted in Table 2.1. As the group cleans more houses the opportunity cost of cleaning houses: A) falls. B) rises.	36)
C) stays the same.	
D) is the sum of the opportunity costs of cleaning all the houses prior to that one.	
 37) A group of people has formed a house cleaning and yard maintenance business. The number of houses or yards that they can clean or maintain in any given day is depicted in Table 2.1. As the group cleans more houses the opportunity cost of doing yard work: A) rises. B) falls. C) stays the same. D) becomes equal to the opportunity cost of cleaning houses. 	37)
2, reconce equal to the opportunity cost of elemining houses.	

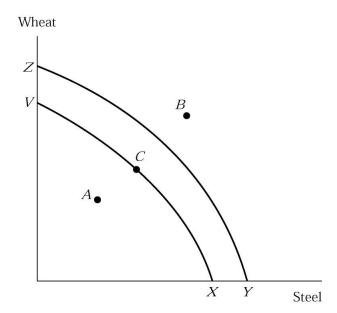


Figure 2.3 38) In figure 2.3, the move from production possibility curve XV to production possibility curve YZ, 38) ____ could be caused by: A) a decline in technology. B) more land, labor or capital. C) decreased unemployment. D) all of the above. 39) __ 39) In figure 2.3, point B: A) is the optimum. B) cannot be produced. C) implies unemployment of some resources. D) all of the above. 40) In figure 2.3, point A: 40) ___ A) implies unemployment of some resources. B) cannot be produced. C) is the optimum. D) all of the above. 41) In figure 2.3, the optimum production point on production possibility curve XV is 41) ____ A) point A. B) point B. C) point C. D) none of the above. 42) In figure 2.3, the move from production possibility curve YZ to production possibility curve XV, 42) __ could be caused by: A) more land, labor or capital. B) a decline in technology. C) increased unemployment. D) all of the above. 43) Recall the application on "The Opportunity Cost of Time and Invested Funds." If this year a 43) _____ business owner spends \$100,000 of his own money on materials, the interest rate is 5%, has living expenses of \$20,000 and could have made \$50,000 in his former line of employment, then the opportunity cost to the business owner of operating the business this year is: A) \$150,000. B) \$55,000. C) \$50,000. D) \$155,000.

44) Recall the application on "The Opportunity Cost of Time and Invested Funds." If the interest

rate rises, then the opportunity costs of running a business:

44) ____

	C) falls	
	D) cannot be determined with the information given.	
	 45) Recall the application on "The Opportunity Cost of Military Spending." The opportunity costs of military spending includes A) the social programs the money spent on the military could have paid for. B) the money spent on social programs. C) the money spent to redistribute income. D) all of the above. 	45)
	 46) Recall the application on "The Opportunity Cost of Military Spending." One implication of the opportunity cost of military spending is that: A) spending the military should be cut. B) spending on social programs could be increased. C) more spending on social programs implies less spending on national defense and more danger of an attack. D) all of the above. 	46)
TRUI	E/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 47) A principle is a self-evident truth that most people readily understand and accept.	47)
	48) Opportunity cost is the difference between the benefit and cost of some action.	48)
	49) In order to go to college James incurs an opportunity cost even though all he gave up was a full time job as a clerk at Wally World.	49)
	50) The opportunity cost of going to a particular college is not the same for everyone.	50)
	51) The cost of a master's degree in engineering equals the tuition plus the cost of books.	51)
	52) The opportunity cost of something is what you sacrifice to get it.	52)
	53) Tradeoffs involve an exchange of one thing for another because resources are limited and can be used in different ways.	53)
	54) The notion of opportunity cost allows the measurement of tradeoffs.	54)
SHO	RT ANSWER. Write the word or phrase that best completes each statement or answers the question 55) What is the opportunity cost of your college degree? 55) _	n.
	57) Suppose that you lend \$1,000 to a friend who pays you back \$1,100 the next year. Suppose that prices that year rose by 8% and the real rate of return in the stock market was 4%. Your friend says that he or she was being more than fair by giving you more than the rate of inflation as a return. What do you think?	
	58) What is the opportunity cost of investing \$10,000 of your own money in a business you wish to start?	

A) is unchanged. B) rises

59) By making acquisitions	s, resources are used th	at could have been use	d to 59) _	
MULTIPLE CHOICE. Choose t	he one alternative tha	t best completes the sta	itement or answers the que	stion.
60) The additional cost rest		-	-	60)
A) diminishing retur	_	B) opportunity		,
C) marginal cost.	·	D) marginal ber	nefit.	
61) The extra benefit result	ing from a small incre	ase in an activity is calle	d the:	61)
A) opportunity cost.		B) diminishing	returns of the activity.	
C) marginal cost.		D) marginal ber	nefit.	
62) The additional cost res	ulting from a small inc	rease in some activity is	called the:	62)
A) marginal benefit.		B) diminishing	returns of the activity.	
C) opportunity cost.		D) marginal cos	t.	
63) The principle that indiv	viduals and firms pick	the activity level where	the incremental benefit of	63)
that activity equals the	incremental cost of tha	at activity is known as t	ne:	
A) principle of dimir	nishing returns.	B) principle of o	pportunity cost.	
C) spillover principle	e.	D) marginal pri	nciple.	
64) The marginal principle	implies that an individ	dual will do best by pro	ducing or consuming	64)
where:				
A) marginal benefit e				
	s less than marginal co	ost.		
	exceeds marginal cost.			
D) total benefit equal	ls total cost.			
65) If a consumer can buy fifth DVD is:	four DVDs for \$44 and	five DVDs for \$50, then	the marginal cost of the	65)
A) \$6.	B) \$10.	C) \$11	D) \$50.	
66) If a consumer can buy t	four pizzas for \$24 and	l five pizzas for \$25, the	n the marginal cost of the	66)
fifth pizza is:	•	•	O	,
A) \$25.	B) \$5.	C) \$1.	D) \$6.	

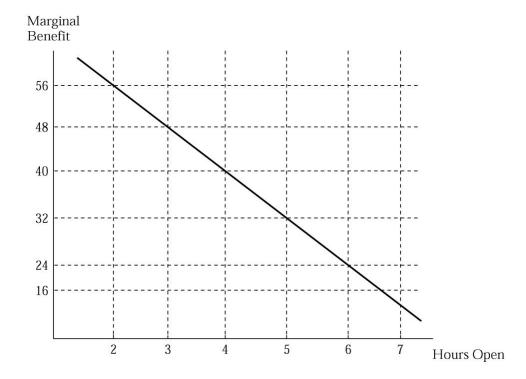


Figure 2.4 67) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 67) marginal benefit of staying open for each additional hour. Suppose that Joe's marginal cost of staying open per hour is \$24. How many hours should Joe stay open? A) 5 hours B) 4 hours C) 6 hours D) 3 hours 68) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 68) marginal benefit of staying open for each additional hour. Suppose that Joe's marginal cost of staying open per hour is \$32. How many hours should Joe stay open? A) 5 hours B) 4 hours C) 6 hours D) 7 hours 69) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 69) marginal benefit of staying open for each additional hour. Suppose that Joe's marginal cost of staying open per hour is \$40. How many hours should Joe stay open? A) 4 hours B) 3 hours C) 6 hours D) 5 hours 70) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 70) _ marginal benefit of staying open for each additional hour. Suppose that we observe Joe staying open 5 hours per day. If he is following the marginal principle, what must his marginal cost be? A) \$40 B) \$32 C) \$16 D) \$24 71) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 71) marginal benefit of staying open for each additional hour. Suppose that we observe Joe staying open 3 hours per day. If he is following the marginal principle, what must his marginal cost be? A) \$32 B) \$48 C) \$24 D) \$40 72) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his 72)

marginal benefit of staying open for each additional hour. Suppose that we observe Joe staying open 4 hours per day. If he is following the marginal principle, what must his marginal cost be?

C) \$24

D) \$40

B) \$32

A) \$16

73) Joe runs a business and needs to decide how many hours to stay open. Figure 2.4 illustrates his marginal benefit of staying open for each additional hour. Suppose that we observe Joe staying open 6 hours per day. If he is following the marginal principle, what must his marginal cost be?			73)		
A) \$		B) \$24	C) \$16	D) \$32	
		-	operation Marginal cost	<u>t</u>	
		1	100		
		2	and the second s		
		4	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
		5	The second secon		
		6	No. of the second secon		
		7	28		
			Table 2.2		
her ma benefi	arginal costs of sta	aying open for each per hour is \$20. If sl	de how many hours to stag additional hour. Suppose ne is following the margir	_	74)
	hours	B) 7 hours	C) 6 hours	D) 4 hours	
her ma benefi	arginal costs of sta	aying open for each per hour is \$12. If sl	le how many hours to stag additional hour. Suppose ne is following the margir	_	75)
	shours	B) 7 hours	C) 6 hours	D) 4 hours	
her ma benefi	arginal costs of sta	aying open for each per hour is \$16. If sl	le how many hours to stage additional hour. Suppose ne is following the margir		76)
	hours	B) 3 hours	C) 4 hours	D) 5 hours	
her ma	arginal costs of sta g open 5 hours pe	aying open for each	additional hour. Suppose	y open. Table 2.2 illustrates e that we observe Julianne ole, what must her marginal	77)
A) \$		B) \$24	C) \$16	D) \$20	
her ma	arginal costs of sta g open 3 hours pe	aying open for each	additional hour. Suppose	y open. Table 2.2 illustrates e that we observe Julianne ole, what must her marginal	78)
A) \$		B) \$24	C) \$16	D) \$12	
her ma stayin	arginal costs of sta g open 2 hours pe	aying open for each	additional hour. Suppose	y open. Table 2.2 illustrates that we observe Julianne ple, what must her marginal	79)
benefi		R) ¢Q	C) \$20	D) ¢12	
A) \$	<i>144</i>	B) \$8	C) \$20	D) \$12	
80) Juliani	ne runs a business	and needs to decid	le how many hours to sta	y open. Table 2.2 illustrates	her margin

al costs	80)				
of					
staying					
open for					
each					
addition					
al hour.					
Suppose that					
Julianne'					
s marginal					
benefit of					
staying					
open per					
hour is					
\$24. If					
she is					
followin					
g the					
marginal					
principle					
, how					
many					
hours					
should					
Julianne					
stay					
open?	A > O I	D) (1	C) 41	D) 71	
	A) 2 hours	B) 6 hours	C) 4 hours	D) 7 hours	
81)	Julianne runs a bus	siness and needs to decide h	how many hours to stay o	pen. Table 2.2 illustrates	81)
,		of staying open for each ad	•	•	,
	-	ppen per hour is \$28. If she		-	
	hours should Julian		0		
	A) 3 hours	B) 7 hours	C) 6 hours	D) 1 hour	
200				T. 1.1. A. A. 111	2.5
82)		siness and needs to decide l		_	82)
	-	of staying open for each ad open per hour is \$3. If she is		_	
	hours should Julian		s tollowing the marginal p	micipie, now many	
	A) 6 hours	the stay open:	B) 1 hour		
	C) 3 hours		D) none of the abo	MΩ	
	C) o nours		D) Hone of the abo		
83)	Considering how a	one-unit change in one var	riable affects the value of	another variable is called:	83)
	A) the marginal	_	B) the Peter Princi		
	C) functional de	• •	-	supply and demand.	
84)	When referring to '	'marginal" changes, the eco	onomic focus is on:		84)
,	A) large changes	-			,
		affect only a few people or	products.		
		anges on the high end.	-		

A) marginal equilibrium.	ease in some activity is called the: B) marginal cost.	85)
C) marginal value.	D) marginal benefit.	
86) When deciding whether to engage in an activ	vity or how much to do, people should follow:	86)
A) the marginal principle.	B) the principle of macroeconomics.	
C) the law of supply and demand.	D) the principle of microeconomics.	
	ses the Marginal Principle." Continential Airlines	87)
ran planes that were half full while losing me	•	
A) the management was concerned with a	· ·	
B) government regulations required a cert	~	
C) the marginal revenue from the flights v	vas great than the marginal costs.	
D) the management was irrational.		
88) Recall the application "Continental Airline U	•	88)
-	oney because the management correctly realized	
that:		
A) it would keep the government from tak	9	
B) airplanes need to be used to keep them	•	
C) fixed costs are not part of marginal cost	ts.	
D) it would be good public relations.		
	oull out US troops from Iraq and many calls to stay	89)
the course in Iraq, an economic analysis of th	· · · · · · · · · · · · · · · · · · ·	
A) pull the troops out slowly to over time	_	
	there from now on to the defense benefits that will	
· · · · · · · · · · · · · · · · · · ·	m now on and if the cost are greater withdraw but if	
the benefits are greater leave the troops		
C) pull out the troops now as it is too cos		
D) stay the course as the US has spent so n	nuch money and needs to finish the job.	
90) In the fall of 2006, there have been many call	s to pull out US troops from Iraq and many calls to	90)
stay the course in Iraq, an economic analysis		
A) the costs of having troops in Iraq from		
B) what else the troops could be doing and be spent on.	d what else the money keeping them there could	
C) the defense benefits of having troops ir	Iraq from now on.	
D) all of the above.		
E/FALSE. Write 'T' if the statement is true and '	F' if the statement is false.	
91) When Jimmy produces one guitar his costs to	otal \$250. When he produces two guitars his total	91)
costs are \$400. This means that Jimmy's marg	ginal cost of producing the second guitar is \$200.	
92) Economists argue that individuals should co	ntinue to consume until total benefit equals total	92)
cost.	1	,
02) If a company's total costs are described in	om ¢500 to ¢600 by adding another resultant but it	02)
10) if a company's total costs per day increase in	om \$500 to \$600 by adding another worker, but its	93)

D) small or incremental changes.

74)	benefit equals its marginal cost.	id pick the level at which the activity's ma	arginai 94)
95)	Basically, the marginal principle teaches us to evadecide if the action it is worth the effort.	aluate the factors involved in taking an ac	etion to 95)
	ANSWER. Write the word or phrase that best confirmed increase the level of an activity if its marginal berthe level of an activity if its marginal cost exceeds the	nefit exceeds its marginal cost; reduce	q uestion. 96)
97)	Different people eat different amounts of food whethough they all pay the same price. Explain how	• •	97)
98)	Farmer Bill grows corn on his 27-acre farm. To in more fertilizer on the corn. What does the margin		98)
99)	Consider a firm that is trying to determine how n How would the firm make this decision?	nany hours to remain open in a day.	99)
100)	The additional cost resulting from a one unit increase known as the	ease in the production of a good is	100)
101)	Marginal cost is the additional cost resulting from activity.	n a <i>large</i> or <i>small</i> increase in some	101)
	LE CHOICE. Choose the one alternative that be	-	-
102)	When people act in their own self interest, it is de		102)
	A) laws of each state.C) principle of supply and demand.	B) principle of voluntary exchange.D) principle of scarcity.	
103)	When two people engage in voluntary trade,:		103)
,	A) each will expect to lose.C) both will expect to be made better off.	B) one will necessarily lose.D) both will necessarily lose.	,
104)	Firms expect to make money on repeat business It A) firms have more power than customers. B) they think they can put one over on their cut C) the management of the firm expects both the by their exchange. D) all firms are monopolists.	astomers.	104)
105)	Remember the Application on "Tiger Woods and whack the weeds on his estate in one hour, while still hires a gardener because: A) Mr. Woods' gardener is poor and needs a jo B) Mr. Woods' opportunity cost of time is large better off. C) Mr. Woods is rich. D) all of the above.	his gardener will take 20 hours, yet Mr. V b.	Noods

106) Remember the Application on "Tiger Woods and Weeds.." In this application Mr. Woods can

whack the

weeds on his estate in one hour, while his gardener will take 20 hours, yet Mr. Woods still hires a gardener because:	 A) It is worth more to Mr. Woods than what he must pay his gardener to pull his weeds and worth less than he will be paid to give up his time and effort doing the job. B) It is worth less to Mr. Woods than what he must pay his gardener to pull his weeds and worth less than he will be paid to give up his time and effort doing the job. C) It is worth less to Mr. Woods than what he must pay his gardener to pull his weeds and worth more than he will be paid to give up his time and effort doing the job. D) It is worth more to Mr. Woods than what he must pay his gardener to pull his weeds and worth more than he will be paid to give up his time and effort doing the job. 	
107)	LSE. Write 'T' if the statement is true and 'F' if the statement is false. The principle of voluntary exchange is the concept that a voluntary exchange between two people makes both people better off.	107)
108)	When two parties engage in voluntary exchange, one must be made worse off.	108)
109)	Two parties engage in exchange when each one expects to be made better off by the exchange.	109)
110)	Firms that make their customers better off get more repeat business and make earn more profits.	110)
	People acting in their own self interest try to gain at the expense of others in exchange leads to someone necessarily losing in a voluntary exchange.	111)
•	When you have a job and your employer compensates you for your time with money, resulting in both of you being better off, it is an example of a voluntary exchange.	112)
113)	A "market" is an arrangement that allows people to exchange things.	113)
114)	ANSWER. Write the word or phrase that best completes each statement or answers the question If each of us could produce everything we needed for ourselves, we would be considered to be	ı .
115)	When does voluntary exchange take place? 115)	
116)	LE CHOICE. Choose the one alternative that best completes the statement or answers the quest The principle of diminishing returns implies that as one input increases while the other inputs are held fixed, output: A) increases at a decreasing rate. B) decreases at an increasing rate.	ion. 116)

C) increases at an increasing rate.	D) decreases at a decreasing rate.		
117) The principle that "as one input increases while	the other inputs are held fixed, output increases	117)	
at a decreasing rate" is known as the:			
A) marginal principle.	B) spillover principle.		
C) principle of diminishing returns.	D) principle of opportunity cost.		
118) Diminishing returns occurs because:		118)	
A) not enough people have jobs.			
B) two people have not satisfied their self-inte			
C) consumers do not buy enough of the prod	•		
D) one of the inputs to the production process	s is fixed.		
119) The period of time over which one or more factor	ors of production is fixed is the:	119)	
A) period of marginal costs.	B) short run.		
C) long run.	D) none of the above		
120) The short run is:		120)	
A) when demand is fixed.			
	on are fixed and some of factors of production		
are variable . C) always less than a year.			
D) all of the above.			
D) all of the above.			
121) The long run is:		121)	
A) that period when all factors of production	are variable.	/	
B) that period when demand is variable.			
C) always more than a year.			
D) all of the above.			
122) The period of time over which a firm can change	e all the factors of production is the:	122)	
A) long run.	B) period of fixed production.		
C) period of marginal costs.	D) period of diminishing returns.		
123) According to the principle of diminishing return	ns, if all factors of production but one are held	123)	
constant and if that one factor is doubled, then e	eventually output will most likely:		
A) more than double.	B) less than double.		
C) double too.	D) none of the above		
124) A firm produces its product using both capital a	and labor. When it does not change its capital	124)	
usage, but doubles its labor input, its output inc	e i	,	
is the most likely explanation of this finding?	·		
A) the marginal principle	B) the principle of diminishing returns		
C) the spillover principle	D) the principle of opportunity cost		
125) According to the principle of diminishing return	ns, if the number of workers is increased beyond	125)	
the point of diminishing returns, then the additional worker:			
A) increases total output by less than the amount of previous workers.			
B) increases total output by the same amount	-		
C) increases total output by more than the am	nount of previous workers.		
D) decreases total output.			

126) The principle of dia	minishing returns occ	curs:			126)
A) only in the sh	-				,
B) only in the lo					
	ort run and the long	run.			
	short run or the long		the circumstances		
	Units of Capita	l Number of Wor	kers Output/Da	<u></u>	
	5	0	0)	
	5	1	100		
	5	2	180		
	5	3	240		
	5	4	280		
	5	5	300		
		Table 2.3			
127) The firm depicted i	in Table 2.3 is facing a	a short-run choice b	ecause:		127)
	bor are both fixed.				
·	f workers can only be	e increased to 5.			
C) capital is fixed					
D) capital and la	bor are both variable				
128) Refer to Table 2.3.	The marginal produc	t of the 4th worker	is:		128)
A) 40 units of ou			units of output.		120)
C) 80 units of ou	-		units of output.		
,	1	,	1		
129) Refer to Table 2.3.	The marginal produc	t of the 3rd worker	is:		129)
A) 40 units of ou	ıtput.	B) 100	units of output.		
C) 60 units of ou	ıtput.	D) 80	units of output.		
120) Defer to Table 2.2.	The meaning landers	t of the let weeken	ia.		120)
130) Refer to Table 2.3.					130)
A) 60 units of ou	-	•	units of output.		
C) 80 units of ou	nput.	D) 40	units of output.		
131) Refer to Table 2.3.	The marginal produc	t of the 2nd worker	is:		131)
A) 60 units of ou	itput.	B) 40	units of output.		·
C) 100 units of o	utput.	D) 80	units of output.		
132) Refer to Table 2.3.	The principle of dimi	nichina raturne cate	s in with the addit	ion of the	132)
worker.	The principle of diffil	inoming returns sets	, iii widi die addit		102)
A) 1st	B) 2nd	C) 3rd	1	D) 4th	
	Extension and the second and the second	Tanks of Fertilizer	Truckloads of F	ruit	
	10	0	45		
	10	1	63		
	10	2	83		
	10	3	88		
	10	4	89		
	10	5	89		
		Table 2.4			
		TUDIC 2.T			
133) The firm depicted i	in Table 2.4 is facing a	a short-run choice b	ecause:		133)

	•	fertilizer is variable.			
	D) land and fertilize	er are both fixed.			
	134) Refer to Table 2.4. The	e marginal product of t	he 3rd tank of fertilizer is	:	134)
	A) 5 truckloads of f	ruit.	B) 20 truckloads	of fruit.	
	C) 1.67 truckloads of	of fruit.	D) 29.33 truckloa	nds of fruit.	
	135) Refer to Table 2.4. The	e marginal product of t	he 2nd tank of fertilizer is	s:	135)
	A) 10 truckloads of		B) 20 truckloads		
	C) 41.5 truckloads of	of fruit.	D) 5 truckloads o	of fruit.	
	136) Refer to Table 2.4. The	principle of diminishi	ng returns sets in with th	e addition of the	136)
	tank of fertilizer.	D) 2J	C) 441-	D) Eth	
	A) 2nd	B) 3rd	C) 4th	D) 5th	
	137) The principle of dimir	nishing returns does no	ot apply to labor in the lor	ng run because:	137)
	A) eventually the m	arginal product of labo	or will begin to increase a	gain.	
	B) a firm can fire in	efficient workers.			
		_	on facility so each worker	r's share of the facility	
	doesn't necessari	•	1		
	D) None of the abov	ve, diminishing returns	s aiways appiy.		
	138) Remember the Applic	ation on "Fertilizer and	l Crop Yields." As bags	of nitrogen applied went	138)
	from 0 to 1 to 2 to 3 to	4, crop yield went from	n 85 to 120 to 135 to 144 to	o 147 bushels per acre or as	
	more nitrogen was ad	ded output:		_	
	A) rose but at an inc	creasing rate.	B) fell.		
	C) stayed the same.		D) rose but at a c	leclining rate.	
	139) Remember the Applic	ation on "Fertilizer and	l Cron Yields" - As hags (of nitrogen applied went	139)
			-	to 147 bushels per acre or	100)
	production exhibited:		JIII 00 to 120 to 100 to 144	to 147 busiless per ucre or	
	A) increasing return		B) diminishing r	returns to fertilizer.	
	C) constant returns		D) decreasing re		
	,		, 0		
TRU	JE/FALSE. Write 'T' if the	statement is true and '	F' if the statement is fals	se.	
	140) According to the princ	ciple of diminishing ref	turns, an additional work	er decreases total output.	140)
	141) The short run is the sa	me amount of time for	all businesses.		141)
	,				/
	142) The short run is a year	or less.			142)
	143) As more and more of	a variable input is com	bined with some fixed in	puts, additions to the total	143)
	output decline.	r		1	,
	144) In the Leve 11.				1.4.4\
	144) In the long run all inp	uts are variable.			144)
	145) The marginal output of	of labor is the amount of	of output that can be prod	luced if one more unit of	145)
	labor is added.		-		

A) the amount of fertilizer can only be increased to 5.

B) land and fertilizer are both variable.

146) You are running a small yard maintenance business for the summer. What do you expect to happen to the number of yards you can maintain in a day as you add workers if you don't purchase more capital equipment (like mowers and leaf blowers)?				
147) When a firm hired its te Would you expect the fi hired two more workers	rm's output to increase by	put increased by four units eight more units per month		
148) Producing more output	in an existing production lity will bring into effect t		mber of 148) _	
IULTIPLE CHOICE. Choose the 149) The real-nominal principal principal real-nominal real-no		st completes the statement (or answers the ques	149)
-	ople is the face value of m	oney or income.		
B) people respond mo	ore to implicit costs than to	o explicit costs.		
	ople is the purchasing por ore to explicit, or real, cost	-		
150) The principle that what	matters to people is the re	al value or purchasing pow	er of money is the:	150)
A) real-nominal princ		B) principle of diminishi		
C) marginal principle		D) spillover principle.		
151) The face value of money	or income is called its	value.		151)
A) nominal		C) real	D) external	
152) The value of money or i	ncome in terms of the qua	ntity of goods the money ca	n buy is called its:	152)
A) real value.	B) marginal value.	C) implicit value.	D) nominal value.	/
153) The real value of money	r:			153)
	ple than its nominal value			
	sing power of the sum of	money.		
C) is another word for				
D) Both B and C are c	orrect.			
154) If real salaries increase b				154)
	wer of money has decreas	ed.		
B) prices have not cha	anged.			
C) prices have fallen. D) prices have risen.				
•				
155) If real salaries decrease l	but nominal salaries do no	ot, this means that:		155)
A) prices have risen.	ruan of monary has increase			
C) prices have fallen.	wer of money has increase	ea.		
D) prices have not cha	anged.			
156) A major league baseball	player signs a contract th	at pays \$50 million over five	years. The \$50	156)
million is its va		1 7	, , , , , , , , , , , , , , , , , , , ,	- /
A) external		B) implicit		
C) real		D) none of the above		
157) Suppose your bank pays	s vou 6% interest per vear	on your savings account so	that \$100 grows to	\$106 over

157)				
A) \$0	B) \$4	C) \$3	D) \$1	
Suppose your bar	nk pays you 5% interest per	year on your savings acc	count. If prices increase by	158)
3% per year over for a year?	that time, approximately ho	ow much do you gain by	keeping \$100 in the bank	
A) \$2	B) \$0	C) \$3	D) \$6	
			turn on your savings	159)
A) 5%	B) 7%	C) 2%	D) 0%	
			turn on your savings	160)
A) 6%	B) 3%	C) 9%	D) 8%	
opportunity cost	of lending the money?	he or she pays you back	one year later. What is the	161)
B) the real inte	rest rate that would have be	een earned on the money		
•		ve been earned on the m	oney	
You borrow mon	ey to buy a house in 1999 at	t a fixed interest rate of 6.	5%. By 2003, the inflation	162)
rate has risen to 8 you?	5.5%. Considering <i>only</i> your	mortgage, is inflation go	ood news or bad news for	
			-	
			1)	
163) You borrow money to buy a house in 1999 at a variable interest rate of 6.5%. Your interest rate is always 2% more than the rate of inflation. By 2003, the inflation rate has risen to 8.5%.				
	A) \$0 Suppose your bar 3% per year over for a year? A) \$2 Suppose prices in account would you A) 5% Suppose prices in account would you A) 6% Suppose that you opportunity cost A) the implicit B) the real inte C) There is no D) the nominal You borrow monerate has risen to 8 you? A) Good news, B) Bad news, b C) Bad news, b D) Bad news, b D) Bad news, b D) Bad news, b C)	A) \$0 B) \$4 Suppose your bank pays you 5% interest per 3% per year over that time, approximately he for a year? A) \$2 B) \$0 Suppose prices increase by 4% per year. Wha account would you require to get a 1% real real year. A) 5% B) 7% Suppose prices increase by 3% per year. Wha account would you require to get a 3% real real year. A) 6% B) 3% Suppose that you lend \$1,000 to a friend and opportunity cost of lending the money? A) the implicit cost of the money B) the real interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost. D) the nominal interest rate that would have be C. There is no cost.	A) \$0 B) \$4 C) \$3 Suppose your bank pays you 5% interest per year on your savings acc 3% per year over that time, approximately how much do you gain by for a year? A) \$2 B) \$0 C) \$3 Suppose prices increase by 4% per year. What nominal percentage ref account would you require to get a 1% real return? A) 5% B) 7% C) 2% Suppose prices increase by 3% per year. What nominal percentage ref account would you require to get a 3% real return? A) 6% B) 3% C) 9% Suppose that you lend \$1,000 to a friend and he or she pays you back opportunity cost of lending the money? A) the implicit cost of the money B) the real interest rate that would have been earned on the money C) There is no cost. D) the nominal interest rate that would have been earned on the money You borrow money to buy a house in 1999 at a fixed interest rate of 6 rate has risen to 8.5%. Considering only your mortgage, is inflation go you? A) Good news, because it makes the real value of your mortgage pays B) Bad news, because it makes the real value of your mortgage pays C) Bad news, because it makes the nominal value of your mortgage pays C) Bad news, because it makes the nominal value of your mortgage D) Bad news, because it makes the nominal value of your mortgage D) Bad news, because it makes the nominal value of your mortgage D) Bad news, because inflation hurts everyone.	A) \$0 B) \$4 C) \$3 D) \$1 Suppose your bank pays you 5% interest per year on your savings account. If prices increase by 3% per year over that time, approximately how much do you gain by keeping \$100 in the bank for a year? A) \$2 B) \$0 C) \$3 D) \$6 Suppose prices increase by 4% per year. What nominal percentage return on your savings account would you require to get a 1% real return? A) 5% B) 7% C) 2% D) 0% Suppose prices increase by 3% per year. What nominal percentage return on your savings account would you require to get a 3% real return? A) 6% B) 3% C) 9% D) 8% Suppose that you lend \$1,000 to a friend and he or she pays you back one year later. What is the opportunity cost of lending the money? A) the implicit cost of the money B) the real interest rate that would have been earned on the money C) There is no cost. D) the nominal interest rate that would have been earned on the money You borrow money to buy a house in 1999 at a fixed interest rate of 6.5%. By 2003, the inflation rate has risen to 8.5%. Considering only your mortgage, is inflation good news or bad news for you? A) Good news, because it makes the real value of your mortgage payments decrease. B) Bad news, because it makes the real value of your mortgage payments increase. C) Bad news, because it makes the nominal value of your mortgage payments increase. D) Bad news, because it makes the real value of your mortgage payments increase. D) Bad news, because it makes the real value of your mortgage payments increase. D) Bad news, because it makes the real value of your mortgage payments increase. D) Bad news, because it makes the real value of your mortgage payments increase.

B) Bad news, because it n C) Good news, because it D) Neither, because your	makes the real value of	of your mortgage pa		
164) What is the real value of mo	oney?			164)
A) its face value	Ž			,
B) its compounded earning				
C) the amount of it you h				
D) the quantity of goods a	and services it can buy			
165) What is the nominal value o	of money?			165)
A) its actual face value	·			
B) what can be purchased	d with the money			
C) savings by shopping o	-	week		
D) discounts taken by mu	ıltiple purchases			
166) Remember the Application	on "The Declining Rea	l Minimum Wage."	If the nominal minimum	166)
wage is unchanged while p	rices rise, then the real	minimum wage:		
A) rises.	B) declines.	C) is unaffected.	D) stays the same.	
167) Remember the Application	-	_	If the nominal minimum	167)
wage is unchanged while pr				
A) stays the same.	B) rises.	C) falls.	D) is unaffected.	
168) Remember the Application of student loans, you are helped A) unexpected deflation. C) unexpected inflation.		•	tion.	168)
TRUE/FALSE. Write 'T' if the staten 169) From 1974 to 2005 as the not fell.				169)
170) When prices rise, increases i	in real income are grea	ter than increases in	nominal income.	170)
171) What matters to people is th	ne face value of money	or income.		171)
172) The government uses the bureporting changes in "real w			ne or nominal value in	172)
SHORT ANSWER. Write the word 173) Is it possible for nominal wa	-	-	-	on.
174) People are interested in how	v much their money ca	n buy. This is calle	d the 174) _	
175) What does an increase in preearn as wages?	ices in retails stores do	to the real value of	the money you 175) _	
176) If your salary increases and unit of money have <i>more</i> or	•	ores increase at the s	ame rate, does a 176)	

A) Bad news, because inflation hurts everyone.

- 1) A
- 2) C
- 3) A
- 4) B
- 5) D
- 6) C
- 7) D
- 8) C
- 9) D
- 10) D
- 11) D
- 12) D
- 13) B
- 14) A
- 15) A
- 16) C
- 17) A 18) C
- 19) D
- 20) A
- 21) C
- 22) A
- 23) B
- 24) C
- 25) A
- 26) A
- 27) A
- 28) D
- 29) C
- 30) A
- 31) A
- 32) C
- 33) C
- 34) D
- 35) B
- 36) B
- 37) B
- 38) B
- 39) B
- 40) A
- 41) D
- 42) B 43) B
- 44) B
- 45) A
- 46) C
- 47) TRUE
- 48) FALSE
- 49) TRUE
- 50) TRUE
- 51) FALSE

- 52) TRUE
- 53) TRUE
- 54) TRUE
- 55) A quick answer would be to say that the cost is the tuition, room and board, and books expenditures that are borne during the college years. But such a statement would be incorrect. First, it understates one aspect of costs: one is giving up income while a student. But it also overstates the costs in another dimension: people would eat and sleep somewhere regardless of their attendance in college. So one should not consider room and board to be part of the cost of college attendance.
- 56) Everything has a cost, even when you do not pay money for it. Suppose that somebody bought you lunch. The opportunity cost of that lunch is the lost opportunity to spend your time otherwise.
- 57) The opportunity cost of that money was not just the 8% inflation, but also the real rate of return that would have been enjoyed had the money been put in the stock market. For you to have been indifferent between loaning your money versus keeping it, your friend should have reimbursed you by \$1,120, or a 12% return. This is another example of considering all the costs, both the loss in purchasing power of the money due to inflation and the implicit cost of the return that could have been earned if the money was invested in the stock market.
- 58) The opportunity cost of your \$10,000 is the money you lose because you cannot invest the money elsewhere.
- 59) acquire something else
- 60) C
- 61) D
- 62) D
- 63) D
- 64) A
- 65) A
- 66) C
- 67) C
- 68) A
- 69) A
- 70) B 71) B
- 72) D
- 73) B
- 74) A
- 75) A
- 76) C
- 77) D
- 78) D
- 79) B
- 80) B
- 81) B
- 82) D
- 83) A
- 84) D
- 01) D
- 85) D
- 86) A 87) C
- 07) C
- 88) C
- 89) B 90) D
- 91) FALSE
- 92) FALSE
- 93) TRUE
- 94) TRUE

- 95) TRUE
- 96) marginal principle
- 97) The marginal monetary cost of eating more is zero, so people will eat until they would not enjoy eating other bite. There is an implicit cost of eating more once you are full (extra weight gain and physical discomfort). Therefore, people will eat until marginal benefit equals marginal cost, and this will occur at different amounts of food for different people.
- 98) Eventually the marginal benefit of adding fertilizer will decrease. In fact, eventually the fertilizer will begin to burn the plants, so the marginal benefit of fertilizer will become negative.
- 99) The firm would continue to stay open as long as the incremental benefit of staying open (say, the increased revenues) each extra hour exceeds (or at least equals) the incremental costs (e.g., electricity, wages, etc.) incurred from staying open that hour.
- 100) marginal cost
- 101) small
- 102) B
- 103) C
- 104) C
- 105) B
- 106) A
- 107) TRUE
- 108) FALSE
- 109) TRUE
- 110) TRUE
- 111) FALSE
- 112) TRUE
- 113) TRUE
- 114) self-sufficient
- 115) When both parties expect to be made better off by the exchange.
- 116) A
- 117) C
- 118) D
- 119) B
- 120) B
- 121) A
- 122) A
- 123) B
- 124) B
- 125) A
- 126) A
- 127) C
- 128) A
- 129) C
- 130) B
- 131) D
- 132) B
- 133) C
- 134) A
- 135) B
- 136) B
- 100) D
- 137) C 138) D
- 139) B
- 140) FALSE

- 141) FALSE
- 142) FALSE
- 143) TRUE
- 144) FALSE
- 145) TRUE
- 146) It is likely that as you add workers, you will get incrementally less output out of each additional worker. Holding constant your materials, such as trucks, lawnmowers, etc., you'll almost surely be able to maintain more yards per day. But as you hire more workers, there might be waits for the use of the tools, or for transportation to the next job.
- 147) No. The principle of diminishing marginal returns suggests that after some point of increasing returns, each incremental worker should have a progressively lower level of marginal productivity.
- 148) diminishing returns
- 149) C
- 150) A
- 151) A
- 152) A
- 153) B
- 154) C
- 101)
- 155) A 156) D
- 155)
- 157) C
- 158) A
- 159) A
- 160) A
- 161) B
- 162) A
- 163) D
- 164) D
- 165) A
- 166) B
- 167) B
- 168) C
- 169) FALSE
- 170) FALSE
- 171) FALSE
- 172) TRUE
- 173) Yes, though unlikely. This would imply that prices have fallen, and that the decrease is sufficiently negative to offset any losses in nominal wages.
- 174) real-nominal principle
- 175) An increase in prices in retail stores reduces what you can purchase and thus the real value of earnings.
- 176) Since prices have risen in stores, each unit, ie dollar, can buy less and its purchasing power is less.