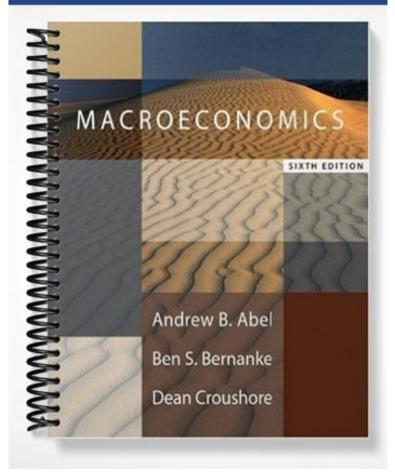
TEST BANK



MULTI	PLE CHOICE. Choose the	one alternative that best	completes the statement	or answers the questi	on.	
1	1) The accounting framework	k used in measuring curre	nt economic activity is ca	lled	1)	
	A) the flow of funds acc	-	B) the national income a			
	C) the balance of payme		D) the U.S. expenditure			
	Answer: B		, 1			
2	2) The three approaches to m	easuring economic activit	ty are the		2)	
		and government approach	-			
	B) product, income, and	expenditure approaches.				
	C) cost, income, and exp	enditure approaches.				
	D) private, public, and in					
	Answer: B					
3	3) The value of a producer's o	output minus the value of	the inputs it purchases fi	com other	3)	
	producers is called the pro					
	A) gross product.	B) surplus.	C) value added.	D) profit.		
	Answer: C					
4	The Bigdrill company drill		0		4)	
	made into gas. The Bigoil o			hat is the total		
	contribution to the country	-				
	A) \$200 million	B) \$400 million	C) \$800 million	D) \$600 million		
	Answer: D					
		1	·		5)	
Č) Sam's Semiconductors produces computer chips, which it sells for \$10 million to Carl's Computer Company (CCC). CCC's computers are sold for a total of \$16 million. What is the					
		.). CCC's computers are so	old for a total of \$16 millio	on. what is the		
	value added of CCC?	D) 作10 :11:	C) (†2) (\mathbf{D}) \mathbf{f} (\mathbf{m} :11: \mathbf{m}		
	A) \$16 million	B) \$10 million	C) \$26 million	D) \$6 million		
	Answer: D					
4	6) The Compagnie Naturelle	sells mounted butterflies	using butterfly bait it bu	vs from another	6)	
(firm for \$20,000. It pays its		-	-	0)	
	is its value added?	Workers \$60,000, puys \$1	ooo in taxes, and nus pro	110 01 \$0000. What		
	A) \$19,000	B) \$3000	C) \$39,000	D) \$59,000		
	Answer: C	D) 40000	C) \$00,000	D) 407,000		
5	7) The equation total product	tion = total income = total	expenditure is called		7)	
	A) the total identity.		1		/	
	B) the goods-market equ	uilibrium condition.				
	C) Say's Law.					
	-	ntity of national income ac	counting.			
	Answer: D		C C			
8	8) To ensure that the fundam	ental identity of national	income accounting holds,	, changes in	8)	
	inventories are					
	A) counted as consumpt		B) ignored.			
	C) treated as part of exp	enditure.	D) treated as part of sav	ing.		
	Answer: C					

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

9) Describe the three different approaches to measuring the amount of economic activity that occurs during a

period of time and explain why they all give identical measurements.

Answer: The approaches are the product approach, which measures the amount of output produced; the income approach, which measures the incomes received by producers of output; and the expenditure approach, which measures the amount of spending by the ultimate purchasers of output. They give identical measurements because everything that is produced is purchased by someone, so the expenditure and product approaches must be equal, and because anything that is purchased means that someone is earning income in the same amount, so the expenditure and income approaches must be equal.

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

 10) To what extent are homemaking and child-rearing accounts for in the government's GDP accounts? A) Only to the extent that they are provided for pay B) All homemaking and child-rearing are accounted for C) Not at all D) Only to the extent that taxes are paid on them Answer: A 	10)
 11) The measurement of GDP includes A) nonmarket goods such as homemaking and child-rearing. B) estimated values of activity in the underground economy. C) the benefits of clean air and water. D) purchases and sales of goods produced in previous periods. Answer: B 	11)
 12) Which of the following is included in U.S. GDP? A) A newly constructed house B) The purchase of a watch from a Swiss company C) The sale of a new car from a manufacturer's inventory D) The sale of a used car Answer: A 	12)
 13) Government statisticians adjust GDP figures to include estimates of A) the underground economy. B) the costs of pollution to society. C) child-rearing services provided by stay-at-home parents. D) the value of homemaking (work done within the home). Answer: A 	13)
 14) Because government services are not sold in markets, A) they are excluded from measurements of GDP. B) taxes are used to value their contribution. C) they are valued at their cost of production. D) the government tries to estimate their market value and uses this to measure the government's contribution to GDP. Answer: C 	14)
 15) Intermediate goods are A) either capital goods or inventories. B) capital goods, which are used up in the production of other goods but were produced in earlier periods. C) final goods that remain in inventories. 	15)

D) goods that are used produced.	l up in the production	of other goods in the sam	e period that they were	
Answer: D				
year. C) final goods, becaus	ear, whereas final good the they are not used up me year as the related	ds are produced over a pe o during a given year. final good, whereas intern		16)
17) Marvin's Metal Compan component of its cars. Ir A) capital goods.C) final goods.Answer: B		at it sells to Ford, which us accounts, the screws are cl B) intermediate go D) inventory.	assified as	17)
 18) Larry's Lathe-makers Lizall over the world. The sonational income account A) intermediate goods C) capital goods. Answer: C 	tandard lathe deprecians, the lathes are classif	ates over a twenty-five yea		18)
19) Fred the farmer purchas farmers for \$50,000. The A) \$50,000. Answer: C			is old tractors to other D) \$150,000.	19)
20) Inventories include each A) goods in process. C) raw materials held Answer: B	Ū.	EPT B) office equipmer D) unsold finished		20)
21) GDP differs from GNP b A) GDP = GNP - capit B) GNP = GDP - capit C) GDP = GNP - net f D) GNP = GDP - net f Answer: C	al consumption allow al consumption allow actor payments from a	ances. ıbroad.		21)
 22) If an American construc A) fully included in U B) excluded from U.S C) included in U.S. GI D) included in U.S. GI labor. Answer: D 	.S. GDP. . GNP. DP but not in U.S. GN		-	22)

23) Nations such as Egypt and Turkey may have wide differences between GNP and GDP because bot h the

 A) have a large portion B) have a high level of i C) have a large number D) purchase large amou Answer: C 	mports and exports re of citizens working a	elative to GNP. broad.	porations.					
24) If <i>C</i> = \$500, <i>I</i> = \$150, <i>G</i> = \$2 A) \$10 Answer: A	100, <i>NX</i> = \$40, and GM B) -\$10	NP = \$800, how much is C) \$5	s <i>NFP</i> ? D) -\$5	24)				
25) The income-expenditure is A) $Y = C + I + G + NX$. C) $Y = C + I + G + NX + Answer: A$		B) $Y = C + I + G$. D) $Y = C + S + T$.		25)				
 26) Which of the following is <i>not</i> a category of consumption spending in the national income accounts? A) Services B) Housing purchases C) Nondurable goods Answer: B 								
 27) Consumer spending is spending by households on final goods and services produced A) domestic and foreign; domestically and abroad B) domestic and foreign; domestically C) domestic; domestically and abroad D) domestic; domestically Answer: C 								
 28) In the expenditure approa measurements of GDP? A) All government payrer B) Government paymer C) Government paymer D) Government paymer 	nents are included in nts for welfare nts for goods produce	GDP d by foreign firms	excluded from ate or local governments	28)				
 29) Net national product equals A) gross national product minus statistical discrepancy. B) national income minus taxes on production and imports. C) gross national product minus depreciation. D) national income plus depreciation. Answer: C 								
30) Monica grows coconuts ar values one fish as having a for helping her to harvest terms of fish, Monica's ince A) 2700 fish. Answer: D	a worth of three cocor coconuts and catch fis	nuts. She gave Rachel 30	00 coconuts and 100 fish	30)				

31	Monica grows coconuts	and catches fish. Last	year she harvested 1500 co	oconuts and 600 fish. She	31)			
	values one fish as havin	g a worth of three coco	nuts. She gave Rachel 300		,			
	for helping her to harvest coconuts and catch fish, all of which were consumed by Rachel.							
Monica consumed the remaining fish and coconuts. In terms of fish, total consumption by both								
	Monica and Rachel wou	ıld equal						
	A) 1100 fish.	B) 700 fish.	C) 2700 fish.	D) 900 fish.				

A) 1100 fish.	B)
Answer: A	

32) Private disposable income equals

A) NNP - taxes + transfers + interest.
B) national income - taxes - transfers + interest.
C) national income - taxes + transfers + interest.
D) GNP - taxes + transfers + interest.
Answer: D

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

33) Carl's Computer Center sells computers to business firms. Businesses then use the computers to produce other goods and services. Over the past year, sales representatives were paid \$3.5 million, \$0.5 million went for rent on the building, \$0.5 million went for taxes, \$0.5 million was profit for Carl, and \$10 million was paid for computers at the wholesale level. What was the firm's total contribution to GDP?

Answer: \$5 million. Note that the \$10 million paid for computers is not part of value added. Note also that the fact that the firm produces an intermediate good doesn't mean that it doesn't contribute to GDP.

- 34) What is the main conceptual difference between GDP and GNP? How different are GDP and GNP for the United States? For countries with many citizens who work abroad?
 - Answer: GDP represents output produced within a country, while GNP represents output produced by a country's factors of production; the difference is net factor payments from abroad. For the United States there's little difference, but for countries that have many citizens working abroad, there may be a big difference.
- 35) Citizens of the country of Heehaw produce hay and provide entertainment services (banjo playing). In one year they produced \$15 million worth of hay, with \$11 million consumed domestically and the other \$4 million sold to neighboring countries. They provided \$7 million worth of banjo-playing services, \$5 million in Heehaw, and \$2 million in neighboring countries. They purchased \$6 million worth of soda pop from neighboring countries.

Calculate the magnitudes of GNP, GDP, net factor payments from abroad, net exports, and the current account balance.

- Answer: GNP is output by citizens, which equals \$15 million + \$7 million = \$22 million. GDP is output produced in the country, which equals \$15 million (hay) + \$5 million (domestic banjo playing) = \$20 million. Net factor payments from abroad represent the difference between GNP and GDP; this is the \$2 million paid for banjo playing in other countries. Net exports are \$4 million (hay sold abroad) minus \$6 million (soda pop imports) = -\$2 million. (Note that banjo playing abroad is not part of GDP, so it is not part of net exports either.) The current account balance is net exports + net factor payments = -\$2 million + \$2 million = 0.
- 36) In the country of Kwaki, people produce canoes, fish for salmon, and grow corn. In one year they produced 5000 canoes using labor and natural materials only, but sold only 4000, as the economy entered a recession. The cost of producing each canoe was \$1000, but the ones that sold were priced at \$1250. They fished \$30 million worth of salmon. They used \$3 million of the salmon as fertilizer for corn. They grew and ate \$55 million of corn. What was Kwaki's GDP for the year?

Answer: Inventories are valued at the cost of production, so the 1000 canoes in inventory were valued at \$1000

32) ____

each, for a total of \$1250 each totaled \$5 million. Salmon as a final good were worth \$27 million (the other \$3 million \$1 million. Four were used up as an intermediate good), and corn worth \$55 million was grown. So total GDP (in thousand canoes at millions) was \$1 + \$5 + \$27 + \$55 = \$88 million.

37) In one year in the country of Countem, workers earned \$4150, proprietor's income was \$392, rental income was \$20, corporate profits were \$683, net interest was \$228, taxes on production and imports were \$329, business current transfer payments were \$12, the current surplus of government enterprises was \$3, statistical discrepancy was \$28, consumption of fixed capital was \$882, factor income received from the rest of the world was \$331, and payments of factor income to the rest of the world was \$623. Based on these data, compute national income, net national product, gross national product, and gross domestic product. Answer: The first eight items sum to national income, which equals \$5817. Adding the statistical discrepancy to national income gives net national product, which is thus \$5845. Adding consumption of fixed capital

to that gives gross national product, which is thus \$6727. Subtract net factor income, which equals factor income received from the rest of the world minus payments of factor income to the rest of the world (\$331 - \$623 = -\$292), from gross national produce equals gross domestic product, which is thus \$7019.

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

38) The value of a hous	ehold's assets minus the v	alue of its liabilities is ca	lled	38)
A) wealth.	B) income.	C) stock.	D) debt.	
Answer: A				
transfers received f	rom the government = \$29	96, interest payments on	proad = \$889, taxes = \$869, the government's debt = puntry had private saving	39)
A) \$3850.	B) \$2112.	C) \$285.	D) \$2397.	
Answer: B	-) +	0) \$2001	_)	
transfers received fr \$103, consumption	ountry's GDP = \$9841, net rom the government = \$29 = \$8148, and government	96, interest payments on	8	40)
saving equal to A) \$285.	B) \$2112.	C) \$2397.	D) \$3850.	
Answer: A				

- 42) If a local government collects taxes of \$500,000, has \$350,000 of government consumption 42) _____ expenditures, makes transfer payments of \$100,000, and has no interest payments or investment, its budget would

A) be in balance with neither a surplus nor a deficit.

- B) show a surplus of \$150,000.
- C) show a surplus of \$50,000.
- D) show a deficit of \$50,000.

Answer: C

43) The government budget surplu	•			43)
A) government receipts min	U U	ıtlays.		
B) government purchases pl				
C) government purchases m	-			
D) government purchases m	inus transfers.			
Answer: A				
44) National saving equals private	saving plus gove	rnment saving, which in	turn equals	44)
A) GDP + NFP .		B) GDP + $C + G$.		
C) GDP + $NFP - C - G$.		D) $C + S + T$.		
Answer: C				
45) The uses-of-saving identity say	vs that an econom	y's private saving is used	for	45)
A) investment, interest expe	nses, the governm	nent budget deficit, and th	ne current account.	
B) investment, the governme	-	-		
C) investment, interest expe	nses, and the gove	ernment budget deficit.		
D) investment, interest expendence of the current account.	nses, the governm	nent budget deficit, transf	er payments, and the	
Answer: B				
46) The uses-of-saving identity sho	ows that if the gov	vernment budget deficit r	ises, then one of the	46)
following must happen.				
A) Private saving must rise,	investment must	rise, and/or the current ad	count must fall.	
B) Private saving must rise,	investment must	fall, and/or the current ac	count must rise.	
C) Private saving must fall, i	investment must 1	rise, and/or the current ac	count must rise.	
D) Private saving must rise,	investment must	fall, and/or the current ac	count must fall.	
Answer: D				
47) Suppose that private saving is	\$1590 billion, inve	estment is \$1945 billion, a	nd the current account	47)
balance is -\$489 billion. From t				,
	-\$134 billion	C) -\$844 billion	D) \$134 billion	
Answer: B		, .	, .	
48) Suppose that national saving is	s \$1456 billion, inv	vestment is \$1945 billion.	and private saving is	48)
\$1590 billion. How much is the			and private saving is	
	\$221 billion	C) -\$221 billion	D) \$489 billion	
Answer: A	<i>q</i>	c)		
49) In the mid-to-late 1980s, the Un were negative.	nited States had "t	win deficits" because bot	h and	49)
A) government saving; priva	ate saving	B) government savi	ng; the current account	
C) the current account; investigation of the current account; investig	-	D) saving; investme	•	
Answer: B	Juncin	D j saving, investine		
AIISWEL D				

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

- 50) How does chain weighting lead to a different measurement of real GDP than the methods used by the BEA prior to 1996? What are the advantages of chain weighting? What are the disadvantages?
 - Answer: Prior to 1996, the growth rate of real GDP depended on which year was chosen as the base year. Now, however, the current year and preceding year are used as base years, averaging results using each as base year. The advantages of this method are that there is no longer a need to recompute historical data or to change base years. However, a disadvantage is that real GDP is no longer the sum of its components.

51) Explain how it was possible for U.S. national wealth to have risen substantially from 1990 to 1999, yet national saving declined as a percentage of GDP.

Answer: An increase in wealth doesn't require additional saving, if the value of existing assets increases. In the 1990s, gains in the stock market caused U.S. national wealth to rise.

52) In a given year, a country's GDP = \$3843, net factor payments from abroad = \$191, taxes = \$893, transfers received from the government = \$422, interest payments on the government's debt = \$366, consumption = \$3661, and government purchases = \$338. Calculate the values of private saving, government saving, and national saving.

Answer: Private saving = Y + NFP - T + TR + INT - C = \$3843 + \$191 - \$893 + \$422 + \$366 - \$3661 = \$268.Government saving = T - TR - INT - G = \$893 - \$422 - \$366 - \$338 = -\$233. National saving = Y + NFP - C - G = \$3843 + \$191 - \$3661 - \$338 = \$35.

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

53) The country of Old Jersey produces milk and butter, and it has published the following 53) _____ macroeconomic data, where quantities are in gallons and prices are dollars per gallon.

	Year 1			Year 2			
Good	Quantity]	Price	Quanitiy	Price		
Milk	500	\$2	900	\$3			
Butter	2000	\$1	3000	\$2	_		
Between	Between Year 1 and Year 2, nominal GDP grew by						

		2)	
A) 190.0%.	B) 83.3%.	C) 65.5%.	D) 60.0%.
Answer: A			

54) The value of real GDP in the current year equals

- A) the value of base-year output in prices of the current year.
- B) the value of current-year output in prices of the base year.
- C) the value of base-year output in prices of the base year.
- D) the value of current-year output in prices of the current year.
- Answer: B
- 55) The country of Old Jersey produces milk and butter, and it has published the following macroeconomic data, where quantities are in gallons and prices are dollars per gallon.

	Year 1					Year 2
Good	Quantity		Price	Quanitiy	Price	
Milk	500	\$2	900	\$3		
Butter	2000	\$1	3000	\$2		

Between Year 1 and Year 2, the percent change in real GDP (based on Year 1 as a base year) was
A) 130%.B) 58%.C) 60%.D) 190%.Answer: C

_

56) The country of Old Jersey produces milk and butter, and it has published the following macroeconomic data, where quantities are in gallons and prices are dollars per gallon.

	Year 1			Year 2		
Good	Quantity		Price	Quanitiy	Price	
Milk	500	\$2	900	\$3		

ButtYear 1 er and 2000 Year 2, Bet the weeGDP n deflator

54) ____

55) ____

(based on Year 1 as a base year) cose	56)					
036	A) 83.33%. Answer: D	B) 123.00%.	C) 60.00%.	D) 81.25%.		
57)	Currently, the U.S. natio calculate real GDP? A) Fixed-weight C) Heavy-weight Answer: B	nal income and produ	uct accounts (NIPA) use B) Chain-weight D) Variable-weig		57)	
58)	If nominal GDP for 2003 is \$6400 billion and real GDP for 2004 is \$6720 billion (in 2003 dollars), then the growth rate of real GDP is					
	A) 50%. Answer: B	B) 5%.	C) 0.5%.	D) 0%.		
59)	If the price index was 10 \$480 billion in 2000, ther A) \$384 billion. Answer: B			vas \$360 billion in 1990 and rs would be D) \$424 billion.	59)	
60)	Nominal GDP in 1970 w index was 30.6 for 1970 a change in real GDP in th A) 97% Answer: D	and 60.4 for 1980, whe	ere 1992 was the base yea	-	60)	
61)	58.5 for 1980 and 92.9 for	on in 1990. The price i r 1990, where 1992 wa	ndex for personal consumes the base year. Calculat	nption expenditures was	61)	
62)) Nominal gross private domestic investment was \$1888.0 billion in 2004 and rose to \$2057.4billion in 2005. The chain-weight price index for gross private domestic investment was 106.6 for2004 and 110.3 for 2005, where 2000 was the base year. Calculate the percent change in real grossprivate domestic investment (rounded to the nearest percentage point) from 2004 to 2005.A) 1%B) 5%C) 4%D) 3%Answer: B					
63)	 A disadvantage of chain-weighting is that A) it causes output growth to slow. B) past growth rates of real GDP change whenever the base year changes. C) the components of real GDP don't sum to real GDP. D) past inflation rates change whenever the base year changes. Answer: C 					
64)	The U.S. inflation rate	in the 1960s a	nd 1970s, in the	e 1980s, and in	the 1990s.	

A) rose; fell sharply; rose again C) was steady; rose sharply; fell Answer: D		B) was steady; rose sharply; remained high D) rose; fell sharply; remained low				
	wo years ago, the GDP deflator for Old York was 300, and today it is 330.75. Based on this nformation the annual average inflation rate for the two years was					
	A) 10%. swer: C	B) 5.125%.	C) 5%.	D) 10.25%.		
A	he price index last yea: A) -4% swer: C	r was 1.0 and today it B) 1.4%	is 1.4, what is the inflat C) 40%	ion rate over this period? D) 4%	66) _	
	u are given informatio cember 31 of each year	-	ce index (CPI). The val	ues given are those for	67) _	
Y	ear CPI					
1	989 126.1					
19	990 133.8					
	991 137.9					
	992 141.9					
19	993 145.8					
In	which year was the inf	lation rate the highest	?			
	A) 1992	B) 1991	C) 1990	D) 1993		
An	swer: C					
No wit	w suppose we switch the new base year?	and use 2002 as the ba	se year (2002 = 100). W		68) _	
	A) 111.2 swer: D	B) 80.0	C) 18.0	D) 55.6		
69) Nominal government purchases were \$2226.2 billion in 2004 and rose to \$2372.8 billion in 2005. Real government purchases were \$1940.6 for 2004 and \$1958.0 for 2005, where 2000 was the base year. Calculate the percent change in the chain-weight price index for government purchases (rounded to the nearest percentage point) from 2004 to 2005.						
Ā	A) 6%	B) 8%	C) 4%	D) 2%		
	swer: A					
An	70) The Boskin Commission concluded that the CPI overstates increases in the cost of living by percentage point(s) per year.					
			I overstates increases ir	The cost of hving by	70) _	
70) The			I overstates increases ir C) about 3	D) 1 to 2	70) _	

Answer: D

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

- 72) What is the difference between nominal and real economic variables? Why do economists tend to concentrate on changes in real magnitudes?
 - Answer: Nominal variables are in units of money, while real variables are in physical quantities of output. We measure nominal variables using current market prices and real variables using market prices in a given base year. Nominal variables may increase, but you don't know if the increase is due to higher prices and the same quantity, or a higher quantity with unchanged prices; real variables reflect just quantity changes. For the most part, real variables (consumption, investment, and the capital stock) affect each other in the economy, with lesser roles played by nominal variables (money supply, and price level).
- 73) The country of Myrule has produced the following quantity of gauges and potatoes, with the price of each listed in dollar terms.

		Ye	ar			
		1			2	
	Quantity	Price	Quantity	Price		
Gauges	8,000	\$4	10,000	\$3		
Potatoes	6,000	\$8	5,000	\$14		

(a) Using Year 1 as the base year, what is the growth rate of real GDP from Year 1 to Year 2?

(b) Based on the GDP deflator, what is the inflation rate from Year 1 to Year 2?

Answer: (a) Real GDP for Year 1 = Year 1 quantities at Year 1 prices = $(8000 \times \$4) + (6000 \times \$8) = \$80,000$. Real GDP for Year 2 = Year 2 quantities at Year 1 prices = $(10,000 \times \$4) + (5000 \times \$8) = \$80,000$. Growth rate of real GDP = 0% (b) Nominal GDP for Year 1 = Year 1 quantities at Year 1 prices = $(8000 \times \$4) + (6000 \times \$8) = \$80,000$. Nominal GDP for Year 2 = Year 2 quantities at Year 2 prices = $(10,000 \times \$3) + (5000 \times \$14) = \$100,000$. GDP deflator = nominal GDP/real GDP GDP deflator in Year 1 = \$80,000/\$80,000 = 1. GDP deflator in Year 2 = \$100,000/\$80,000 = 1.25. Inflation rate = $[(1.25/1) - 1] \times 100\% = 25\%$.

- 74) By how much does the CPI overstate true increases in the cost of living, according to the Boskin Commission? What are the main reasons for this bias in the CPI? What are the economic implications of the bias?
 - Answer: The Boskin Commission reported that the CPI overstates inflation by 1 to 2 percentage points per year. The bias arises because of difficulty in measuring quality change (especially for services) and because the CPI doesn't account for the substitution that people make between goods when relative prices change. The bias implies that our measures of real income growth are understated and that Social Security benefits are being adjusted more than they should be to account for inflation.
- 75) In 1975, Richard Petty won the NASCAR race in Richmond, earning \$6,265. In 2006, Dale Earnhardt, Jr., won the race, earning \$239,166. The CPI index was 52.5 in 1975 and 198.7 in 2006 (base year = 1982-1984). Calculate the real earnings of both Petty and Earnhardt.

Answer: Petty: \$6,265/(52.5/100) = \$11,933. Earnhardt: \$239,166/(198.7/100) = \$120,365. So Earnhardt's real earnings were over ten times those of Petty (thanks to NASCAR's increased popularity).

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

76) The nominal interest rate minus the inflation rate is the

A) discount rate. B) forward rate.

76) ____

C) real interest rate. Answer: C		D) depreciation rate.		
	taling \$436 one year lat e on the bond was	t bond (called a bund) for \$4 er. During the year the CPI , and the real interest r C) 36%; 12%	rose from 150 to 162.	77)
B) nominal interest ra C) nominal interest ra	st rate (<i>r</i>) is equal to te plus expected inflati te minus expected infla te minus inflation rate. interest rate minus infla	ation rate.		78)
	st rate was th than the expecte	n 2005, expected inflation e an the expected real interes d real interest rate in 2005. C) greater; greater		79)
80) If the expected inflation inflation rate turned out A) 1.7%. Answer: C	-		2.0%, and the actual D) 3.2%.	80)
but he had thought the G	taling \$436 one year lat CPI would be at 159 by	t bond (called a bund) for \$4 er. During the year the CPI the end of the year. By Mar turned out to be C) 1%; 3%	rose from 150 to 162,	81)
occurred during th B) real interest rates v C) real interest rates v	vere unusually low in t le Reagan administratic vere unusually low in t vere unusually low in t	he 1980s, spurring the econ	-	82)
	e is 7%, today's price le xpected inflation rate?		terest rate?	
	expect the inflation rat pected real interest rate s out to be 3% over the	e to be 2%.		

- (c) f inflation turns out to be 1% over the life of the loan, what is the real interest rate? Who gains from I unexpectedly low inflation, Loretta or Ted?
 - Answer: (a) 8% 2% = 6%.
 - (b) 8% 3% = 5%. Ted gains from unexpectedly high inflation, because he repays the loan with dollars that aren't worth as much as was expected.

(c) 8% - 1% = 7%. Loretta gains from unexpectedly low inflation, because she gets repaid with dollars that are worth more than was expected.

- 85) You took out a loan one year ago at a nominal interest rate of 7.5%. The CPI stood at 173.2 at the time and you expected it to rise to 178.6 over the year. Today the CPI is actually 179.5. Calculate the expected real interest rate on the loan and the real interest rate on the loan.
 - Answer: The expected inflation rate when you took out the loan equals (178.6 173.2)/173.2 = 3.1%, so your expected real interest rate was 7.5% (nominal interest rate) 3.1% (expected inflation rate) = 4.4%. The actual inflation rate over the period equals (179.5 173.2)/173.2 = 3.6%, so your real interest rate was 7.5% (nominal interest rate) 3.6% (inflation rate) = 3.9%.

- 1) B
- 2) B
- 3) C
- 4) D
- 5) D
- 6) C
- 7) D
- 8) C
- 9) The approaches are the product approach, which measures the amount of output produced; the income approach, which measures the incomes received by producers of output; and the expenditure approach, which measures the amount of spending by the ultimate purchasers of output. They give identical measurements because everything that is produced is purchased by someone, so the expenditure and product approaches must be equal, and because anything that is purchased means that someone is earning income in the same amount, so the expenditure and income approaches must be equal.
- 10) A
- 11) B
- 12) A
- 13) A
- 14) C
- 15) D
- 16) C
- 17) B
- 18) C 19) C
- 20) B
- 20) D 21) C
- 22) D
- 23) C
- 24) A
- 25) A
- 26) B
- 27) C
- 28) B
- 29) C
- 30) D 31) A
- 32) D
- 33) \$5 million. Note that the \$10 million paid for computers is not part of value added. Note also that the fact that the firm produces an intermediate good doesn't mean that it doesn't contribute to GDP.
- 34) GDP represents output produced within a country, while GNP represents output produced by a country's factors of production; the difference is net factor payments from abroad. For the United States there's little difference, but for countries that have many citizens working abroad, there may be a big difference.
- 35) GNP is output by citizens, which equals \$15 million + \$7 million = \$22 million. GDP is output produced in the country, which equals \$15 million (hay) + \$5 million (domestic banjo playing) = \$20 million. Net factor payments from abroad represent the difference between GNP and GDP; this is the \$2 million paid for banjo playing in other countries. Net exports are \$4 million (hay sold abroad) minus \$6 million (soda pop imports) = -\$2 million. (Note that banjo playing abroad is not part of GDP, so it is not part of net exports either.) The current account balance is net exports + net factor payments = -\$2 million + \$2 million = 0.
- 36) Inventories are valued at the cost of production, so the 1000 canoes in inventory were valued at \$1000 each, for a total of \$1 million. Four thousand canoes at \$1250 each totaled \$5 million. Salmon as a final good were worth \$27 million (the other \$3 million were used up as an intermediate good), and corn worth \$55 million was grown. So

- total GDP (in millions) was \$1 + \$5 + \$27 + \$55 = \$88 million.
 - 37) The first eight items sum to national income, which equals \$5817. Adding the statistical discrepancy to national income gives net national product, which is thus \$5845. Adding consumption of fixed capital to that gives gross national product, which is thus \$6727. Subtract net factor income, which equals factor income received from the rest of the world minus payments of factor income to the rest of the world (\$331 \$623 = -\$292), from gross national produce equals gross domestic product, which is thus \$7019.
 - 38) A
 - 39) B
 - 40) A
 - 41) C
 - 42) C
 - 43) A
 - 44) C
 - 45) B
 - 46) D
 - 47) B
 - 48) A
 - 49) B
 - 50) Prior to 1996, the growth rate of real GDP depended on which year was chosen as the base year. Now, however, the current year and preceding year are used as base years, averaging results using each as base year. The advantages of this method are that there is no longer a need to recompute historical data or to change base years. However, a disadvantage is that real GDP is no longer the sum of its components.
 - 51) An increase in wealth doesn't require additional saving, if the value of existing assets increases. In the 1990s, gains in the stock market caused U.S. national wealth to rise.
 - 52) Private saving = Y + NFP T + TR + INT C = \$3843 + \$191 \$893 + \$422 + \$366 \$3661 = \$268. Government saving = <math>T TR INT G = \$893 \$422 \$366 \$338 = -\$233. National saving = <math>Y + NFP C G = \$3843 + \$191 \$3661 \$338 = \$35.
 - 53) A
 - 54) B
 - 55) C
 - 56) D
 - 57) B
 - 58) B
 - 59) B
 - 60) D
 - 61) B
 - 62) B
 - 63) C
 - 64) D
 - 65) C
 - 66) C
 - 67) C
 - 68) D
 - 69) A

70) D

- 71) D
- 72) Nominal variables are in units of money, while real variables are in physical quantities of output. We measure nominal variables using current market prices and real variables using market prices in a given base year. Nominal variables may increase, but you don't know if the increase is due to higher prices and the same quantity, or a higher quantity with unchanged prices; real variables reflect just quantity changes. For the most part, real variables (consumption, investment, and the capital stock) affect each other in the economy, with lesser roles played by nominal variables (money supply, and price level).

73) (a) Real GDP for Year 1 = Year 1 quantities at Year 1 prices = $(8000 \times \$4) + (6000 \times \$8) = \$80,000$. Real GDP for Year 2 = Year 2 quantities at Year 1 prices = $(10,000 \times \$4) + (5000 \times \$8) = \$80,000$. Growth rate of real GDP = 0%

(b) Nominal GDP for Year 1 = Year 1 quantities at Year 1 prices = $(8000 \times \$4) + (6000 \times \$8) = \$80,000$. Nominal GDP for Year 2 = Year 2 quantities at Year 2 prices = $(10,000 \times \$3) + (5000 \times \$14) = \$100,000$. GDP deflator = nominal GDP/real GDP GDP deflator in Year 1 = \$80,000/\$80,000 = 1.

GDP deflator in Year 2 = \$100,000/\$80,000 = 1.25.

Inflation rate = $[(1.25/1) - 1] \times 100\% = 25\%$.

- 74) The Boskin Commission reported that the CPI overstates inflation by 1 to 2 percentage points per year. The bias arises because of difficulty in measuring quality change (especially for services) and because the CPI doesn't account for the substitution that people make between goods when relative prices change. The bias implies that our measures of real income growth are understated and that Social Security benefits are being adjusted more than they should be to account for inflation.
- 75) Petty: \$6,265/(52.5/100) = \$11,933. Earnhardt: \$239,166/(198.7/100) = \$120,365. So Earnhardt's real earnings were over ten times those of Petty (thanks to NASCAR's increased popularity).
- 76) C
- 77) B
- 78) B
- 79) B
- 80) C
- 81) D
- 82) C
- 83) Expected inflation rate = 156/150 1 = 0.04 = 4%; expected real interest rate = 7%-4% = 3%.
- 84) (a) 8% 2% = 6%.

(b) 8% - 3% = 5%. Ted gains from unexpectedly high inflation, because he repays the loan with dollars that aren't worth as much as was expected.

(c) 8% - 1% = 7%. Loretta gains from unexpectedly low inflation, because she gets repaid with dollars that are worth more than was expected.

85) The expected inflation rate when you took out the loan equals (178.6 - 173.2)/173.2 = 3.1%, so your expected real interest rate was 7.5% (nominal interest rate) - 3.1% (expected inflation rate) = 4.4%. The actual inflation rate over the period equals (179.5 - 173.2)/173.2 = 3.6%, so your real interest rate was 7.5% (nominal interest rate) - 3.6% (inflation rate) = 3.9%.