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:			:	e:	
Chapter 02: The	Data of Mi	croeconomics			
Multiple Choice					
1. The economic s	tatistic used	I to measure the leve	el of prices is:		
	a.	GDP.			
	b.	CPI.			
	c.	GNP.			
	d.	real GDP.			
ANSWER:				b	
2. The statistic eco	onomists us	e to measure the valu	ue of economic output is	s:	
a.	the CPI.				
b.	GDP.				
c.	the GDI	deflator.			
d.	the uner	nployment rate.			
ANSWER:				b	
3. GDP is <i>all</i> of th	e following	except:			
a. the total	expenditure	of everyone in the e	economy.		
b. the total	income of e	veryone in the econo	omy.		
c. the overa	ll expenditu	ire on the economy's	s output of goods and se	ervices.	
d. the total	output of th	e economy.			
ANSWER:				а	ì
4. The total incom	e of everyo	ne in the economy is	s exactly equal to the tot	tal:	
a. expendi	iture on the	economy's output of	f goods and services.		
b. consum	ption exper	ditures of everyone	in the economy.		
c. expendi	itures of all	businesses in the eco	onomy.		
d. governr	nent expend	litures.			
ANSWER:				а	ì
5. An economy's _	equal	s its .			
	nption; inco				
b. consur	nption; exp	enditure on goods ar	nd services		
c. expend	diture on go	ods; expenditures or	1 services		
d. total ir	ncome; total	expenditure on goo	ds and services		
ANSWER:				d	
6. Two equivalent	ways to vie	ew GDP are as the:			
•	ents made t		economy or the total pro	ofits of all firms and businesse	s in

b. total expenditures on all goods produced in the economy or the total income earned from producing

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all services in the economy	·.	
c. total profits of all firms and services by all households it	I businesses in the economy or the total coin the economy.	onsumption of goods and
d. total income of everyone in and services.	the economy or the total expenditure on	the economy's output of goods
ANSWER:		d
7. In the circular flow model, the fl from households to firms is paid _	low of dollars from firms to households is	paid, and the flow of dollars
a. as wages, capital income	e, and profits; for goods and services	
b. for value added; as impu	ited values	
c. in current dollars; in con	nstant dollars	
d. as interest and dividends	s; for depreciation and taxes	
ANSWER:		a
Which of the following is a flow	v vonichlo?	
8. Which of the following is a flow a. wealth	variable:	
b. the number u	nemployed	
c. government d	- ·	
d. income		
ANSWER:		d
HVS// Lit.		u
9. Which of the following is a stoc	k variable?	
a. Wes	alth	
b. con	nsumption	
c. inv	restment	
d. inc	ome	
ANSWER:		a
10. All of the following are stocks	variables <i>except</i> :	
a. a consumer's wealth	h.	
b. the government buc	dget deficit.	
c. the number of unen	nployed people.	
d. the amount of capit	al in the economy.	
ANSWER:		b
11. <i>All</i> of the following are flows va. the number of new au	_	

b.

c.

the number of people losing their jobs.

business expenditures on plant and equipment.

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d. th	e governme	nt debt.		
ANSWER:				d
12. The amoun	t of capital i	in an economy is a(n)	, and the amount o	of investment is a(n)
a.	flow; sto	ock		
b.	stock; fl	ow		
c.	_	od; intermediate good		
d.	intermed	diate good; final good		
ANSWER:				b
13. The market called:	value of all	I final goods and servi	ces produced within an e	economy in a given period of time is
a.	industr	rial production.		
b.	gross d	lomestic product.		
c.	the GD	OP deflator.		
d.	genera	l durable purchases.		
ANSWER:				b
14. GDP is the time.	market valu	ne of all goods a	and services produced w	ithin an economy in a given period of
	a.	used		
	b.	intermediate		
	c.	consumer		
	d.	final		
ANSWER:				d
	this case, the	e value of GDP is:	and 6 oranges and that a	apples cost \$1 each and oranges cost
		10 pieces of fruit. \$7.		
		\$8.		
		\$10.		
ANSWER:	u.	φ10.		ь
16. All of the forpurchase of a:	ollowing tra	nsactions that took pla	ce in 2009 would be inc	cluded in GDP for 2009 except the
•	ok titled <i>The</i>	Year 3000 that was p	rinted in 2009.	
)1 Jeep Che	•		
	-	ndar printed in 2009.		
d. ticl	ket to see the	e movie 2001.		

ANSWER:

b

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17. When a firm	n sells a product out c	of inventory, GDP:	
a. increas	ses.		
b. decreas	ses.		
c. is not o	changed.		
d. increas	ses or decreases, depe	ending on the year the product was produc	eed.
ANSWER:			c
18. When a firm	n sells a product out o	of inventory, investment expenditures	, and consumption expenditures
a.	increase; decrease		
b.	decrease; increase		
c.	decrease; remain	unchanged	
d.	remain unchanged	d; increase	
ANSWER:			ь
GDP increases in a. b. c. d. ANSWER:	in <i>all</i> of the following is sold to household is stored away for l grows stale and is t is sold to other firm	ater sale. hrown away. ns.	e workers produce more bread.
	-	y for later sale, this is called:	
a. b.	waste.		
	saving. fixed investmen	at t	
c. d.	investment in in		
ANSWER:	mvestment m n	iventory.	d
		onald's a quarter-pound of meat for \$1 an \$2. In this case, GDP increases by:	d that McDonald's sells you a
_	a.	\$0.50.	
	b.	\$1.	
	c.	\$2.	
	d.	\$3.	
ANSWER:			c

22. Assume that a tire company sells four tires to an automobile company for \$400, another company sells a Blu-ray player for \$500, and the automobile company puts all of these items in or on a car that it sells for

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\$20,000. In this of a. \$20,000	-	mount from these tra	insactions that should be c	counted in GDP is:	
b. \$20,000c. \$20,900		itomobile company'	s profit on the car.		
*		ofits of all three con	mpanies on the items that	they sold.	
ANSWER:	1		1	,	a
		tem produced refers he item sold.	to:		
b. the value	of the lab	our inputs in the pro	duction of an item.		
c. the value	of a firm's	s output less the valu	ie of its costs.		
d. the value	of a firm's	s output less the valu	ie of the intermediate good	ds that the firm purchases.	
ANSWER:					d
	-	nd sells the automob	-	or \$10,000, pays its workers se, the value added by the a	
	a.	\$10,000.			
	b.	\$12,000.			
	c.	\$20,000.			
	d.	\$22,000.			
ANSWER:					b
25. In computing	GDP:				
		ed goods are include	ed.		
b. production	on added to	o inventories is excl	uded.		
c. the amou	int of prod	uction in the underg	round economy is impute	d.	
d. the value	of interm	ediate goods is inclu	ided in the market price of	f the final goods.	
ANSWER:					d
26. To avoid dou	ble counti		on of GDP, GDP includes	only the value of goo	ods.
	a.	final			
	b.	used			
	c.	intermediate			
	d.	investment			
ANSWER:					a
27. An example of	of an impu	ted value in the GD	P is the:		

a. b. value added of meals cooked at home.

housing services enjoyed by homeowners.

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c.	rental services of au	tomobiles to their owners.	
d.	value of illegal drug	gs sold.	
ANSWER:			b
28. In princ	ciple, the GDP accoun	ts shouldóbut do notóhave an imputa	ation for:
a.	housing services enj	oyed by homeowners.	
b.	rental services of au	tomobiles driven by owners.	
c.	meals cooked in rest	caurants.	
d.	housing services enj	oyed by renters.	
ANSWER:			b
29. Statisti	cs Canada defines the	underground economy as consisting	of:
a. acti	vities related to drugs	and prostitution.	
b. onl	y illegal activities.		
	rket-based economic a brmal nature.	ctivities that escape measurement be	ecause of their hidden, illegal, or
d. all	trades involving the ex	schange of money.	
ANSWER:	J	,	c
30 Nomin	al GDP means the val	ue of goods and services is measured	lin prices
<i>50.</i> 1 (011111)	a.	current	i iii prices.
	b.	real	
	c.	constant	
	d.	average	
ANSWER:	-	u. ciugo	a
in vo // Bit.			ű
31. Real G	DP means the value of	f goods and services is measured in _	prices.
	a.	current	
	b.	actual	
	c.	constant	
	d.	average	
ANSWER:			С
If 4 apples		2 and 5 in 2019, whereas 3 oranges v	oranges cost \$1 in 2012 and \$1.50 in 2019. were produced in 2012 and 4 in 2019, then
`	a.	\$5.	
	b.	\$6.50.	
	c.	\$9.50.	
	d.	\$11.	

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ANSWER:			b
33. If nominal GD the GDP deflator?	P in 2019 equals \$14 tri	llion and real GDP in 2019 equa	ls \$11 trillion, what is the value of
	a.	0.79	
	b.	1.03	
	c.	1.27	
	d.	3.2	
ANSWER:			c
34. If the GDP def real GDP in 2019?	·	5 and nominal GDP in 2019 equ	als \$15 trillion, what is the value of
	a. \$12 trillion		
	b. \$12.5 trillion	1	
	c. \$15 trillion		
	d. \$18.75 trillio	on	
ANSWER:			a
35. The GDP defla	tor is equal to:		
	ratio of nominal GDP to	o real GDP.	
	ratio of real GDP to not		
	GDP minus national G		
	ninal GDP minus real G		
ANSWER:			a
If 4 apples were pr	oduced in 2012 and 5 ir		es cost \$1 in 2012 and \$1.50 in 2019. produced in 2012 and 5 in 2019, then
	a.	1.5.	
	b.	1.7.	
	c.	1.9.	
	d.	2.0.	
ANSWER:			b
37. If nominal GD approximately		real GDP grew by 3 percent, th	en the GDP deflator grew by
	a.	2	
	b.	3	
	c.	5	
	d.	8	
ANSWER:			a

e:

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38. If nominal GDP increased by 5 percent and the GDP deflator increased by 3 percent, then real GDP _____ by _____ percent.

- a. increased; 2
- b. decreased; 2
- c. increased; 8
- d. decreased; 8

ANSWER: a

- 39. Real GDP is a better measure of economic well-being than nominal GDP because real GDP:
 - a. excludes the value of goods and services exported aboard.
 - b. includes the value of government transfer payments.
 - c. measures changes in the quantity of goods and services produced by holding prices constant.
 - d. adjusts the value of goods and services produced for changes in the foreign exchange rate.

ANSWER:

- 40. Chain-weighted measures of real GDP make use of prices from:
 - a. an unchanging base year.
 - b. a continuously changing base year.
 - c. a base year that is changed approximately every five years.
 - d. a base year that is changed approximately every 10 years.

ANSWER: b

- 41. The national income accounts identity for an open economy is:
 - a. Y = C + I + G NX.
 - b. Y = C + I + G + NX.
 - c. Y = C + I + G.
 - d. Y = C + I G.

ANSWER: b

- 42. If GDP measured in billions of current dollars is \$5,465, consumption is \$3,657, investment is \$741, and government purchases are \$1,098, then net exports are:
 - a. \$131.
 - b. –\$131.
 - c. \$31.
 - d. -\$31.

ANSWER:

- 43. If GDP measured in billions of current dollars is \$5,465, consumption is \$3,657, investment is \$741, and net exports are —\$1,910, then government purchases are:
 - a. \$2,977.

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		b.	\$1,910.		
		c.	-\$843.		
		d.	\$1,067.		
ANSWER:					a
44. If real (GDP gr	rew by 6 percent a	nd population g	rew by 2 percent, then	real GDP per person grew by
approxima	tely	percent.			
			a.	2	
			b.	3	
			c.	4	
			d.	8	
ANSWER:					c
45. In the r		income accounts,	consumption ex	xpenditures include al	d of the following except household
•	a.	durable goods.			
	b.	nondurable go	ods.		
	c.	new residentia	l housing.		
	d.	services.	_		
ANSWER:					c
46. In the r		income accounts,	the purchases of	of durables, nondurable	es, and services by households are
Classifica a	a.	consumption.			
	b.	investment.			
	c.	government p	urchases.		
	d.	net exports.			
ANSWER:		nev enp ens.			a
47 In the r	national	income accounts	goods hought f	or future use are class	ified as which type of expenditure?
17. III the I	a.	services	goods oought i	or ratare ase are class.	med as which type of expenditure.
	b.	investment			
	c.	government p	urchases		
	d.	net exports	var chases		
ANSWER:	u.	net exports			ь
				nt dollars equals \$741, tory investment is:	business fixed investment is \$524,
		a.	\$5.		
		b.	- \$5.		
		c.	\$15.		

anie	Class	e:
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d.	- \$15.	
VSWER:		ь
In the national income account a. transfer payments	unts, all of the following are classified as	government purchases except:
b. services provided b	<u>•</u>	
c. purchases of milita		
•	by members of parliament.	
ISWER:	1	a
a. the federal governm		l services purchased by:
b. the federal and prov	_	
-	nunicipal governments.	
-	al, and municipal governments.	
SWER:		d
c. exported goods minusd. exported goods and se	imported goods. ervices minus imported goods and services	
SWER:		b
vernment purchases is \$5,496 a. b. c.	of current dollars is \$5,465 and the sum of	of consumption, investment, and
d.	- \$704.	
ISWER:		c
a. Apple's building a notb. a corner candy storec. John Smith's buying	are investments in the sense of the term use we factory. 's buying a new computer. It is a newly constructed home. It is an every constructed home. It is a stock.	sed by macroeconomists except:
NSWER:		d
. In 2017, the real GDP of Car	nada totalled about:	

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: <u> </u>	::	e:
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b.	\$211 billion.	
c.	\$2,011 billion.	
d.	\$21 billion.	
ANSWER:		c
55. GNP equals GDP _abroad.	income earned domestically by foreigners	_ income that nationals earn
a.	plus; plus	
b.	minus; minus	
c.	minus; plus	
d.	plus; minus	
ANSWER:		c
56. Net national produc	ct equals GNP:	
a.	plus net investment.	
b.	minus net investment.	
	plus depreciation.	
	minus depreciation.	
ANSWER:		d
57. National income di	ffers from net national product by an amount called:	
a. deprec	iation.	
b. indirec	t business taxes.	
	cal discrepancy.	
	eign factor income payments.	
ANSWER:		c
58. The largest compo	nent of national income is:	
a. corp	porate profits.	
b. com	npensation of employees.	
	incorporated business.	
	interest.	
ANSWER:		b
59. Disposable persona	al income:	
	by subtracting personal tax from personal income.	
b. is generally	greater than personal income.	
	porate profits but not dividends.	
d. does not incl	ude government transfers to individuals.	

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Dat

ANSWER:

Name

a

:	::	e:
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60. According that includes:	to the usual seasonal pattern of the Canadian economy, GDP is highest in	n the quarter of the yea
a.	January, February, and March.	
b.	April, May, and June.	
c.	July, August, and September.	
d.	October, November, and December.	
ANSWER:		d
61. The CPI is	determined by computing:	
a. an aver	rage of prices of all goods and services.	
b. the pric base ye	ce of a basket of goods and services that changes every year, relative to thear.	ne same basket in a
c. the pric year.	ce of a fixed basket of goods and services, relative to the price of the same	e basket in a base
d. nomina	al GDP relative to real GDP.	
ANSWER:		c
62. Prices of ite	tems included in the CPI are:	
a. averag	ged, with the price of every item weighted equally.	
b. weight	ted according to the amount of the item produced in GDP.	
c. weight	ted according to the quantity of the item purchased by the typical householder	old.
d. chaine	ed to the base year by the year-to-year growth rate of the item.	
ANSWER:		c
63. The core in	nflation rate:	
a. meas	sures the change in producer prices.	
b. is me	easured using a Paasche index.	
c. exclı	udes some volatile components of the CPI.	
d. inclu	udes the price of exports and includes the price of imports.	
ANSWER:		c
such as food ar	the rate of inflation using a market basket that excludes some volatile cond energy prices is preferred by some analysts because this measure, called des a real, rather than a nominal, rate of inflation.	-
b. gives a	a better measure of ongoing, sustained price changes.	

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ANSWER:

a.

c. is more consistent with measures of inflation used in other countries.

the CPI but not in the GDP deflator.

d. fluctuates more than measures of inflation that include food and energy prices.

65. An increase in the price of goods bought by firms and the government will show up in:

Name

b

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b.	the	GDP deflator but not in the	e CPI.	
c.	bot	h the CPI and the GDP defl	ator.	
d.	nei	ther the CPI nor the GDP d	eflator.	
ANSWER:				b
66. An incre	ease in	the price of imported goods	s will show up in:	
a.		CPI but not in the GDP de	_	
b.	the	GDP deflator but not in the	e CPI.	
c.	bot	h the CPI and the GDP defl	ator.	
d.	nei	ther the CPI nor the GDP d	eflator.	
ANSWER:				a
goods and sesame basket	ervices would	actually purchased by the	average family in 2019 costs	19 prices. However, the basket of \$20,000 in 2019 prices, whereas this aspeyres price index of 2019 prices
	c.	approximately 1.33.		
	d.	1.50.		
ANSWER:				d
costs \$14,00 goods and s	00 in 20 ervices t would d be: a.	1.05. Whereas the same actually purchased by the all have cost \$15,000 in 2014	the basket costs \$21,000 in 20 average family in 2019 costs	by the average family in Canada 19 prices. However, the basket of \$20,000 in 2019 prices, whereas this aasche index for 2019 using 2014
	b.	approximately 1.07.		
	C.	approximately 1.33.		
ANSWER:	d.	1.50.		b
69. The CPI	is a			
or the of t	a.	Laspeyres price index.		
	b.	Paasche price index.		
	c.	Laspeyres quantity index.		

d.

ANSWER:

Paasche quantity index.

a

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70. The GD	OP defl	ator is a:			
	a.	Laspeyres price index.			
	b.	Paasche price index.			
	c.	Laspeyres quantity index.			
	d.	Paasche quantity index.			
ANSWER:					b
71. When p	orices o	f different goods are increasing	g by different amour	nts, the price index that will ris	se the fastes
s:	a.	the Laspeyres index.			
	b.	the CPI.			
	c.	the GDP deflator.			
	d.	a Paasche index.			
ANSWER:		6 1 00 00000 000000			b
a. b. c. d. ANSWER:	overes overes undere undere	s) per year. timates; one-half of one percer timates; one to two stimates; one-half of one percer stimates; one to two	entage point to one	s not in the labour force if that	a nerson:
	_	to school full time.	5 Canada, a person is	That in the labour force if that	person.
		carily absent from a job becaus	se of illness.		
	-	temporarily laid off.			
		a job and was looking for worl	k during the previous	s four weeks.	
ANSWER:					a
a. ar b. re c. de	re out on the court of the cour	the definition used by Statistics of a job but not looking for work rom the labour force before agave a job but have looked for work from work because of bad were stated to the control of the control o	rk. se 65. work in the past four		l if they:
	_				-
75. The lab a.		rce equals the: population.			

number of employed individuals.

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c.	number of unemployed individu	ıals.	
d.	number of employed and unemp		
ANSWER:		. •	d
	lion workers are unemployed, 18 n the unemployment rate equals	percent.	d, and the adult population equals 25
	a. 1	17	
	b.	10	
	c.	20	
AMOUNTED	d.	5	
ANSWER:			Ь
a. b. c.	our-force participation rate is the adult population that is emplo adult population that is in the labour force that is employed.	yed. labour force.	
d.	labour force that is unemployed	ed.	
ANSWER:			b
78. If the unequals		and the number of employed is	20 million, then the labour force
1	 a.	20.2	
	b.	30.4	
	c.	18.8	
	d.	22.2	
ANSWER:			d
79. If an inc a. b. c. d.	will increase. will decrease. will remain constant. may increase, decrease, or ren		abour-force participation rate:
	may increase, decrease, or ren	iain constant.	1
ANSWER:			b
	lult population equals 25 million orce participation rate equals		oyed and 2 million are unemployed,
	a.	50	
	ь.	58	
	c.	60	
	d.	67	

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ANSWER:			c
81. If the num	per of employed increases wh	ile the number of unemployed	does not change, the unemployment
a.	will increase.		
b.	will decrease.		
c.	will not change.		
d.	may either increase or dec	rease.	
ANSWER:	·		ь
82. In Canada	since the early 1970s:		
	•	f both men and women have in	creased.
b. the lab	our-force participation rates o	f both men and women have de	ecreased.
	our-force participation rate of has decreased.	men has increased, while the la	abour-force participation rate of
	our-force participation rate of has increased.	men has decreased, while the l	abour-force participation rate of
ANSWER:			d
	•	ayroll, and Hours provides esting yed yed	nates of the number of workers nates of the number of workers
d.	on firms' payrolls; with j		
ANSWER:	on mins payrons, with j	005	c
a. b. c.	workers with two jobs. those who are self-employed workers on firms' payrolls.	d.	Payroll, and Hours do <i>not</i> include:
d.	part-time workers on firms'	payrons.	1
ANSWER:			b
a. once inb. once inc. once in	n the Labour Force survey, bu n the Survey of Employment,	ey and the Survey of Employment twice in the Survey of Employ Payroll, and Hours, but twice in the Survey of Employment	yment, Payroll, and Hours. n the Labour Force survey.

ANSWER:

b

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a. both the Labourb. the Labour Force	Force survey and the survey, but not from	ed workers in the economy can ne Survey of Employment, Pay om the Survey of Employment,	roll, and Hours. Payroll, and Hours.
•		, and Hours, but not from the L	•
ANSWER:	our Force survey nor	the Survey of Employment, P	ayron, and Hours.
ANSWEK.			b
a. the Labour Forceb. both the Labourc. the Survey of Ex	ee survey, but not the Force survey and the mployment, Payroll	unemployment rate by using: e Survey of Employment, Payr ne Survey of Employment, Pay , and Hours, but not the Labour the Survey of Employment, P	roll, and Hours. r Force survey.
ANSWER:	·		a
_		· ·	e wheat into flour and sells it to a \$6. The value added by the miller is:
ANSWER:			ь
on her as before (but as after her marriage. The and does not be decrease concreases	a husband rather tha	in as a wage earner). She earns	60,000 per year. He continues to wait \$1 million per year both before and
ANSWER:			b
account that people can a. und b. ove c. acco	substitute less experierestimates; does no restimates; does urately estimates; do	nsive goods for ones that have of	f living because it take into become more expensive.
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91. Exhibit: Totals Recorded for Canada

Table 1. Exhibit: Totals Recorded for Canada (billions of dollars)

	billions of dollars
Durable goods consumption	234
Non-durable goods consumption	282
Services consumption	646
Business gross fixed capital formation	348
Residential structures	134
Non-residential structures, machinery and equipment	180
investment in inventories	13
Government purchases	491
Exports	664
Imports	532
Net investment income from non-residents	- 28
Net compensation received by non-residents employees	-2
Taxes less subsidies, on products	155
Depreciation	371

In the exhibit above, what were GDP, consumption expenditures, investment expenditures, and net exports? *ANSWER*: \$2,030; \$1,167; \$362; and \$10 billion.

92. Exhibit: Totals Recorded for Canada

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Table 1. Exhibit: Totals Recorded for Canada (billions of dollars)

	billions of dollars
Durable goods consumption	234
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Taxes less subsidies, on products	155
Depreciation	371

In the exhibit above, what were the Gross National Product and the Net National Product? *ANSWER*: \$2,000 and \$1,629 billion.

93. Exhibit: Totals Recorded for Canada

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Table 1. Exhibit: Totals Recorded for Canada (billions of dollars)

	billions of dollars
Durable goods consumption	234
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Net compensation received by non-residents employees	-2
Taxes less subsidies, on products	155
Depreciation	371

In the exhibit above, what were the approximate ratios of consumption, investment, and government purchases to the GDP?

ANSWER:

about 57 percent; about 18 percent; and about 24 percent

94. Exhibit: Quantity Consumed and Price of Good

	Base Year	Later Year
Price of good A	100	200
Quantity of good A	100	200
Price of good B	100	100
Quantity of good B	100	100

In the exhibit, the citizens of country XYZ come to desire more of good A. As a result, the quantity and price of the good both rise.

- a. Compute nominal GDP in the base year and later year.
- b. Compute real GDP in the base year and later year.
- c. Compute the GDP deflator in the later year, using your answers to parts (a) and (b).
- d. Compute a fixed-weight price index for the later year, using the base-year quantities as weights.
- e. Which price index rises faster, the GDP deflator (Paasche) index or the fixed-weight index (Laspeyres) index?

ANSWER: a.

- Base-year nominal GDP = 20,000.
 - Later-year nominal GDP = 50,000.
- b. Real GDP in base year = 20,000. Real GDP in later year = 30,000.
- c. GNP deflator in later year = 1.667.

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- d. Fixed-weight index = 1.50.
- e. The Paasche index, with current quantity weights, rises faster in this case than the base-year quantity-weighted Laspeyres index.
- 95. Assume that two countries have the same nominal GDP (measured in the same currency using the same accounting rules). Provide at least three reasons why you cannot assume that citizens in each country enjoy approximately the same level of economic well-being.

ANSWER: Some possible, but not all, explanations include:

- a. Different price levels in the two countries would result in different amounts of real GDP, i.e., different quantities of goods and services available in each country.
- b. Different-sized populations could result in different quantities of goods and services available per person in each country.
- c. Different levels of non-market production in the two countries would alter the quantity of goods and services available in each country.
- d. Different amounts of leisure time available (not captured in nominal GDP figures) would cause economic well-being to differ in the two countries.
- e. Different distributions of income in the two countries could alter the quantity of goods and services available to the typical citizen in each country.
- f. Different quantities of both positive and negative externalities associated with producing GDP, such as pollution and congestion, which are not measured in the GDP, would cause the different levels of economic well-being between the two countries.
- 96. There are a number of measures of aggregate economic activity, such as GDP, GNP, national income, personal income, and disposable personal income. Each of these measures can be a good indicator, depending on the issue under consideration. For each of the following issues, give your reasons for selecting one of the measures just mentioned as the best indicator to use in studying the issue:
- a. the proportion of income households save
- b. the relative share of earnings going to labour versus capital
- c. the total output of final goods and services

ANSWER:

- a. Disposable personal income provides a measure of the income households have to use for either consumption or saving after they pay taxes.
- b. National income provides a measure of the income going to the factors of production.
- c. GDP is the most complete measure of the value of newly produced goods and services in the economy. In contrast, personal income includes transfer payments, which do not represent newly produced goods and services.
- 97. Real GDP per capita is an imperfect measure of economic well-being because it does not value home production or production in the underground economy, among other factors. Give at least two examples that show why the omission of these types of items will make a difference in evaluating economic well-being. One example should explain how the omissions distort comparisons of economic well-being across countries, and another example should explain how the omission distorts comparisons of economic well-being in the same country over time.
- ANSWER: Answers will vary, but one example could show that measured GDP in one country could be much lower than in another country, but the amount of home production in the first country could be very large. In this case, measured real GDP indicates a much larger difference in economic well-being than actually exists between the countries.

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The other example could explain how changes in the amount of home production in a country over time make it difficult to compare economic well-being over time. For example, if most people grew their own food initially and then over time moved to commercial agriculture, the increase in real GDP per person would overstate the increase in the amount of goods and services available in the country, since the food grown at home was not counted in real GDP in the early period.

98. Based on the data in the table below, explain what happened to output and prices in the economy between 2017 and 2018.

	2017	2018
Nominal GDP (\$ billions)	\$14,700	\$15,200
Real GDP (\$ billions 2000 chain weighted)	\$12,100	\$11,900

ANSWER: Real GDP decreased, which indicates that the production of final goods and services was lower in 2018 than in 2017. Nominal GDP increased, which indicates that prices, on average, were higher in 2018 than in 2017, given that real GDP decreased.

- 99. Explain why the value of the GDP in 2018 would or would not change as a result of each transaction described below:
- a. In 2018, the Smith family purchased a new house that was built in 2018.
- b. In 2018, the Jones family purchased a house that was built in 2007.
- c. In 2018, a construction company purchased windows to put in the Smith family home that was built in 2018.
- d. In 2018, Mr. Jones painted all of the rooms of the Jones family house purchased in 2015, using paint and supplies purchased in 2018.
- e. In 2018, Mr. Smith used an online brokerage service to purchases shares of stock in a construction company.

ANSWER:

- a. GDP in 2018 increased by the purchase price of the house, which is a newly produced good.
- b. GDP in 2018 did not change because the house is *not* a newly produced good since it was built in 2007. Transactions involving used goods are not included in the GDP.
- c. GDP in 2018 did not change directly because the windows are intermediate goods, not final goods. The value of intermediate goods is not included in the GDP to avoid double counting. The value of the windows is implicitly included in the price of the house.
- d. GDP in 2018 changed by the purchase price of the paint and supplies, but not by the implicit value of the painting services provided by Mr. Jones because home production is not included in GDP.
- e. GDP in 2018 increased by the charge for using the online brokerage Service, but not by the amount of stock purchase because financial transactions do not represent the production of final goods and services and are not included in GDP.
- 100. Explain which expenditure category of GDP changes and the direction of the change that results for each transaction described.
- a. A domestic business purchases a domestically produced computer to use in a business office.
- b. A domestic business produces a computer that is sold to a foreign company.
- c. The federal government purchases a domestically produced computer to use in a courthouse.

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- d. A domestic household purchases a domestically produced computer to use in a home.
- e. A domestic household purchases a computer produced in a foreign country to use in a home.

ANSWER:

- a. Investment spending increases by the price of the computer.
- b. Exports (and net exports) increase by the price of the computer.
- c. Government spending increases by the price of the computer.
- d. Consumption spending increases by the price of the computer.
- e. Consumption spending increases by the price of the computer, but imports also increase by the price of the computer, so that net exports decrease by the price of the computer, and there will be no net change in GDP.
- 101. Sam wants a loan from Dean. While discussing the interest, Dean told Sam that he will give him two options. Which one should Sam choose and why? The options are:
- a. Sam will pay the nominal interest of 8 percent per annum.
- b. Sam will pay real interest of 4 percent per annum.

ANSWER:

Remember that Nominal Interest = Real Interest + Inflation. The answer actually depends upon the inflation rate. If the inflation rate is less than 4 percent, Sam should choose option (b). If the inflation rate is more than 4 percent, then option (a) is a more favourable choice for Sam. If inflation is 4 percent, Sam can go with either of the options as they will yield the same result.

102. "GDP deflator is a better price level indicator than CPI." Give reasons both supporting and opposing this statement.

ANSWER:

The advantage of using a GDP deflator is that it is calculated using all goods and services produced, including those bought only by firms and the government as well as consumers, and allows a changing basket of goods. This allows it to take into account consumers' ability to substitute less expensive goods for more expensive ones. The CPI is calculated using a fixed basket of goods bought only by consumers and does not take into account substitutions, so it tends to overstate the cost of living for consumers. However, the GDP deflator does not include imported goods, which do impact the CPI. It also doesn't count for any changes in consumer welfare that may result from substituting goods, and it tends to understate the cost of living for consumers.

103. Is real GDP a better measure of economic well-being of a country than nominal GDP? Give an explanation for your answer.

ANSWER:

Yes. Nominal GDP is the current price multiplied by the quantity of all the goods and services produced in a country. Real GDP actually measures the total output (i.e., the quantity), not the price. A growth in nominal GDP can be due to an increase in quantity or price or both. Real GDP keeps price constant using a base year, so it provides a clearer picture of economic well-being.

104. In 2018 John buys a factory built in 2012 and constructs a new storage house within the premises. The transaction of buying the factory is not counted in the GDP, but the construction of the storage house in the same factory is counted in the GDP. Why?

ANSWER: The factory was built in the year 2012, so it was already counted in that year's GDP. The storage house was a new addition in the year 2018, so only it will be considered in the current year's GDP, and not the whole factory.

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105. Cass was paid \$500 in Old Age Security from the government. Though it was an expenditure made by the government, it is not included in the G component of GDP. Explain why.

ANSWER: Even though the government paid Cass, it did not receive any good or service from Cass in return. This is a transfer payment (a reallocation of existing income). This payment will therefore not be included in the G component of GDP.

106. Bob bought \$5,000 worth of Canopy Growth stock. This transaction was brokered by John, who received \$50 for his help. I think the \$5,000 should be included in the GDP, and the \$50 should not be included in the GDP. State whether I am right or wrong and provide an explanation for your answer.

ANSWER: You are wrong. The buying of shares does not contribute anything new to the economy: it is just transferring partial ownership from Canopy Growth to Bob, so it will not be included in the GDP. Help provided by John was actually a service, which added to the total output of the economy, and so \$50 will be added to the GDP.

107. Economic statistics are not perfect. Explain at least one way in which each of the following statistics as currently calculated in Canada fails to completely or accurately measure the corresponding economic concept (in parentheses):

- a. real GDP per person (economic well-being)
- b. CPI (cost of living)
- c. unemployment rate (involuntary unemployment)

ANSWER:

- a. The official measure of GDP does not include measurements of leisure time available, non-market production, production in the underground economy, the distribution of income, or production externalities (e.g., pollution).
- b. The CPI does not allow substitution away from products with rising prices and has difficulty distinguishing between price changes and quality changes in products included in the index.
- c. The official unemployment rate does not take into account discouraged workers, part-time workers who desire full-time employment, and workers employed in jobs not matching their skill level, such as taxi drivers with PhDs in physics.

108. A number of statistics are computed to measure the price level, such as the GDP deflator and the CPI. The choice of which of these measures to use depends in many cases on the specific question in which you are interested. For each of the following situations, state whether the CPI or GDP deflator is a more appropriate measure to use and explain why the statistic is preferred.

- a. You are interested in looking at the impact of higher prices of imported oil in the overall cost of living.
- b. The government is interested in whether increases in defence spending are affecting the price level.
- c. An economic consulting firm is investigating the impact on the aggregate price level of more computers and electronic technology used in production.

ANSWER: a. The CPI is the more appropriate statistic here because the price of imports is not included in the GDP deflator.

- b. The GDP deflator is the more appropriate statistic here because the CPI does not include the prices of goods and services purchased by the government sector.
- c. The GDP deflator is the more appropriate statistic here because the CPI does not include prices of goods and services purchased by businesses or the government sector.

109. "I like eating mangoes daily, but when their price rises, I switch to papayas." Does this statement support the fact that the CPI overstates inflation? (Assume that mangoes are included in the goods basket used to Copyright Macmillan Learning. Powered by Cognero.

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calculate the CPI, but papayas are not included.)

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ANSWER: While calculating the CPI, a fixed basket of goods and services is used. But as the statement shows, it is quite possible that when prices rise, people may switch to substitutes that are not accounted for in the CPI. This non-adjusting attribute of the CPI overstates inflation.

110. One member of Parliament criticizes the Canadian government for making an inadequate effort to stimulate the economy based on data from the Survey of Employment, Payroll, and Hours which shows that the number of jobs in the Canadian economy has fallen. Another member of Parliament counters that the number of employed workers in the Canadian economy has increased over the same period, based on the Labour Force survey. Explain how both members of Parliament can be correct.

ANSWER: If the number of self-employed workers and workers employed in new start-up firms (who are included in the Labour Force survey but not in the Survey of Employment, Payroll, and Hours) has increased more rapidly than the decline in payroll jobs counted in the Survey of Employment, Payroll, and Hours, then the number of employed workers as measured in the Labour Force survey could increase while the number of payroll jobs decreases.

- 111. Into which of the three categories—employed, unemployed, out of the labour force—would an interviewer for the Labour Force Survey place each of the following people? Explain.
- a. Jennifer Temple is working as a second-grade schoolteacher.
- b. Frank Peabody is attending university full-time to earn a degree in elementary education.
- c. Martin Hampton is working as a high school social science teacher but is at home sick with the flu.
- d. Kyle Brown does not currently have a job. He wants to be a primary school teacher. He has the appropriate degree. He has not looked for a position in the past month because he doesn't believe schools are currently hiring.
- e. Brenda Dewey does not currently have a job. She has sent her resume to several school districts in the past week in the hope of finding a teaching position.

ANSWER:

- a. Employed. She is working as a full-time employee.
- b. Out of the labour force. Full-time students are not counted in the labour force.
- c. Employed. He is out sick but still an employee of the school.
- d. Out of the labour force. Discouraged workers are not counted in the labour force.
- e. Unemployed. She is actively looking for a job.
- 112. City A has a total population of 10 million, of which 70 percent are adults. Assume that 20 percent of the adult population is not looking for a job and 60 percent of the remaining adult population is employed. Compute the following:
- a. Labour-force participation rate
- b. Unemployment rate

ANSWER: Adult Population = (10)(70)/100 = 7 million

Labour force = (7,000,000)(100 - 20)/100 = 5,600,000

Labour-force participation rate = (5,600,000)(100)/7,000,000 = 80 percent

Unemployed population = ((100-60)(5,600,000))/100 = 2,240,000

Unemployment rate = ((2,240,000)(100))/5,600,000 = 40 percent