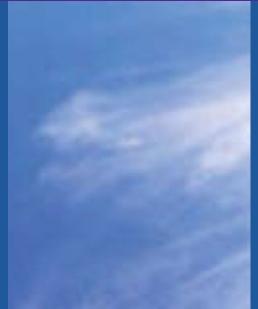


Measuring Domestic Output and National Income



McGraw-Hill/Irwin

Copyright © 2012 *by The McGraw-Hill Companies, Inc. All rights reserved.*

Assessing the Economy's Performance

- National Income Accounting measures economy's overall performance
- Bureau of Economic Analysis compiles
 National Income and Product Accounts
 - Assess health of economy
 - Track long run course
 - Formulate policy

Gross Domestic Product

- Measure of aggregate output
- Monetary measure
- Avoid multiple counting
 - Market value final goods
 - Ignore intermediate goods
 - Count value added

Gross Domestic Product

- Exclude financial transactions
 - Public transfer payments
 - Private transfer payments
 - Stock (and bond) market transactions
- Exclude second hand sales
 - Sell used car to a friend

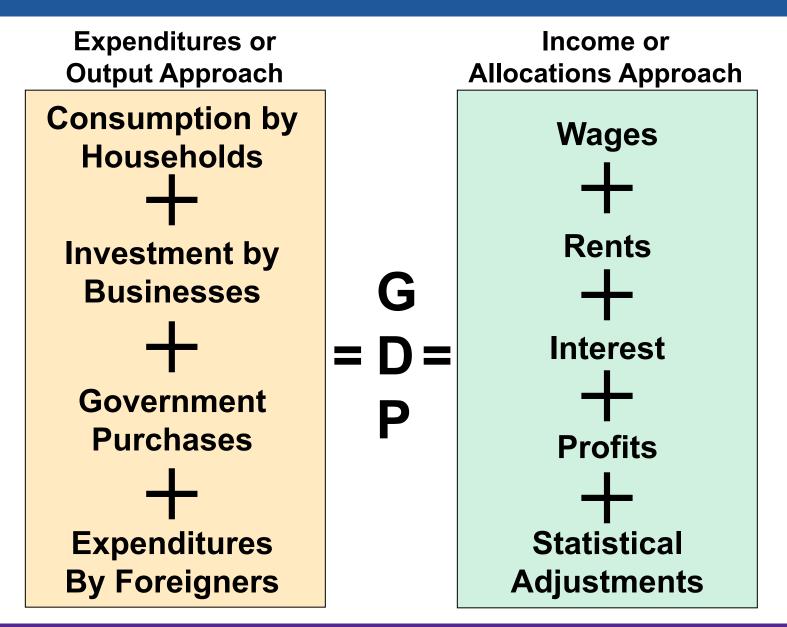
Two Approaches to GDP

Income approach

- Count income derived from production
- •Wages, rental income, interest income, profit
- Expenditure approach

 Count sum of money spent buying the final goods

Two Approaches to GDP



Expenditures Approach

- Personal consumption expenditures (C)
 - Durable consumer goods
 - Nondurable consumer goods
 - Consumer expenditures for services
 - Domestic plus foreign goods produced

Expenditures Approach

- Gross private domestic investment (I_a)
 - Machinery, equipment, and tools
 - All construction
 - Changes in inventories
- Creation of new capital assets
- Noninvestment transactions excluded

Expenditures Approach

- Government purchases (G)
 - Expenditures for goods and services
 - Expenditures for publicly owned capital
 - Excludes transfer payments
- Net exports (X_n)
 - Add exported goods
 - Subtract imported goods

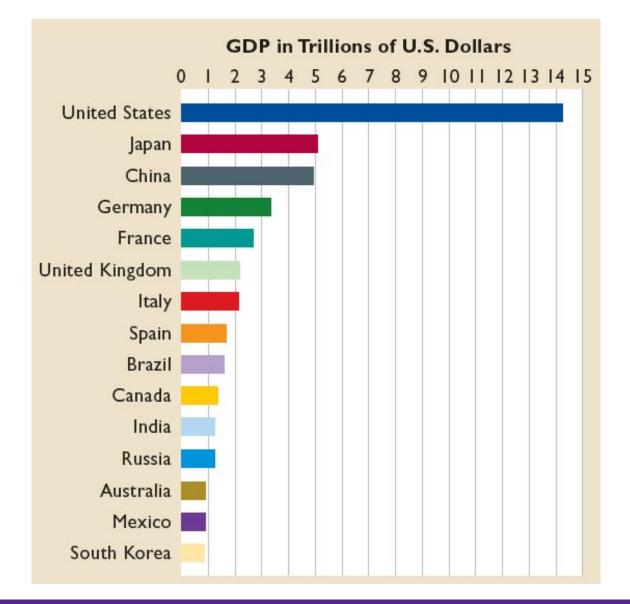
X = exports – imports

U.S. Economy 2009

In Billions

Receipts Expenditures Approach		Allocations Income Approach		
Personal Consumption (C) \$10,089		Compensation	\$	7792
Gross Private Domestic		Rents		268
Investment (I _a)	1628	Interest		788
Government Purchases (G)	2931	Proprietor's Income		1041
Net Exports (X _n)	-392	Corporate Profits		1309
		Taxes on Production and		
		Imports		<u>1090</u>
		National Income	\$1	2,288
		Net Foreign Factor Income Statistical Discrepancy (+) Consumption of Fixed Capital (+)	- (-)	105 209 <u>1864</u>
Gross Domestic Product <mark>\$</mark>	14,256	Gross Domestic Product	<mark>\$</mark> 1	<mark>4,256</mark>

Comparative GDP



The Income Approach

- Compensation of employees
- Rents
- Interest
- Proprietor's income
- Corporate profits
 - Corporate income taxes
 - Dividends

•Undistributed corporate profits

The Income Approach

- From national income to GDP
 - Subtract net foreign factor income
 - Statistical discrepancy
 - Consumption of fixed capital
- Other national accounts
 - Net domestic product (NDP)
 - National income (NI)

U.S. Income Relationships 2009

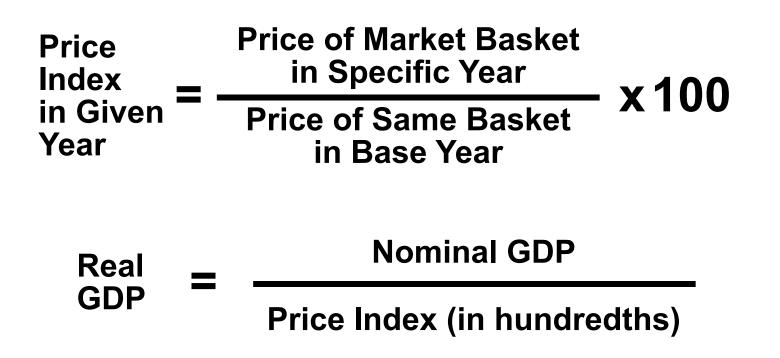
Gross Domestic Product (GDP)	\$ 14,256
Less: Consumption of Fixed Capital	1864
Equals: Net Domestic Product (NDP)	\$ 12,392
Less: Statistical Discrepancy	209
Plus: Net Foreign Factor Income	1 <u>05</u>
Equals: National Income (NI)	\$ 12,288
Less: Taxes on Production and Imports	1090
Less: Social Security Contributions	967
Less: Corporate Income Taxes	315
Less: Undistributed Corporate Profits	418
Plus: Transfer Payments	25 <u>28</u>
Equals: Personal Income (PI)	\$ 12,026
Less: Personal Taxes	1102
Equals: Disposable Income (DI)	\$ 10,924

Nominal vs. Real GDP

- GDP is a dollar measure of production
- Using dollar values creates problems
- Nominal GDP
 - Use prevailing price
- Real GDP
 - Reflect changes in price
 - •Use base year price

GDP Price Index

Use price index to determine real GDP



Shortcomings of GDP

- Nonmarket activities
- Leisure
- Improved product quality
- The underground economy
- GDP and the environment
- Composition and distribution of the output
- Noneconomic sources of well-being

Underground Economy

