

Constructing and Deconstructing GDP

GDP = Gross Domestic Product

- measure of the output of a nation
- can be measured according to two methods: Expenditure Approach and Income Approach

Expenditure Approach measures output by how much is consumed (spent)

•  $C + I_G + G + X_N$

C = Consumption Expenditures (the amount of money spent by households on goods and services)

$I_G$  = Gross Private Domestic Investment (all final purchases of machinery, equipment, and tools by businesses; all construction; changes in inventories)

G = Government Purchases

$X_N$  = Net Exports (Exports - Imports)

We can use GDP to determine other important national accounts that are used for statistical analysis.

Below is the method of *deconstructing* GDP in order to arrive at various other important statistics. (“Breaking Down” Method)

<b>GDP</b>	
- depreciation	
= <b>NDP</b> (Net Domestic Product)	
- net foreign investment	
- indirect business taxes	
= <b>NI</b> (National Income)	
+ transfer payments	
- social security contributions	
- undistributed corporate profits	
- corporate income tax	
= <b>PI</b> (Personal Income)	
- personal taxes	
= <b>DI</b> (Disposable Income)	

Below is the method of *constructing* each of the various important statistics all the way up to GDP. (“Building Up” Method)

+ Compensation of Employees	
+ Dividends	
+ Proprietors’ Income	
+ Interest	
+ Rent	
+ Transfer Payments	
- Personal Taxes	
- Social Security Contributions	
= <b>DI</b> (Disposable Income)	
+ personal taxes	
= <b>PI</b> (Personal Income)	
+ corporate income taxes	
+ undistributed corporate profits	
+ social security contributions	
- transfer payments	
= <b>NI</b> (National Income)	
+ indirect business taxes	
+ net foreign investment	
= <b>NDP</b> (National Domestic Product)	
+ depreciation	
= <b>GDP</b>	