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# Macroeconomics Formulas

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# List of 18 Macroeconomics Formulas

## Macroeconomics

### 1) Change in Money Supply

$$\text{fx } \Delta M = \left( \frac{1}{\text{rrr}} \right) \cdot \Delta R - (\text{IDA})$$

[Open Calculator !\[\]\(a870788d6ed9b8fd294b7654a8c8526b\_img.jpg\)](#)

$$\text{ex } 2211.667 = \left( \frac{1}{0.9} \right) \cdot 2400 - (455)$$

### 2) Components of Aggregate Demand

$$\text{fx } AD = C + I + G + X M$$

[Open Calculator !\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d\_img.jpg\)](#)

$$\text{ex } 3680 = 500 + 280 + 400 + 2500$$

### 3) Expenditure Multiplier

$$\text{fx } EM = \frac{\text{INCPI}}{\Delta G}$$

[Open Calculator !\[\]\(f60b7a900783ac3fd531bfd9c111be6d\_img.jpg\)](#)

$$\text{ex } 0.833333 = \frac{100}{120}$$



#### 4) Gross Domestic Product at Factor Cost

$$fx \quad GDP_{fc} = GDP_{mp} + S_s - IT$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235\_img.jpg\)](#)

$$ex \quad 34750 = 25050 + 12000 - 2300$$

#### 5) Gross National Product at Market Price

$$fx \quad GNP_{mp} = GDP_{fc} + NFIA$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0\_img.jpg\)](#)

$$ex \quad 35990 = 34750 + 1240$$

#### 6) Growth Rate of Money Supply

$$fx \quad g_m = R + g_y$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f\_img.jpg\)](#)

$$ex \quad 1010.06 = 0.06 + 1010$$

#### 7) Life Expectancy

$$fx \quad LE = CAI + ALEY - ADF$$

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754\_img.jpg\)](#)

$$ex \quad 85 = 55 + 65 - 35$$

#### 8) National Disposable Income

$$fx \quad NDI = NI + NIT + NCT_{rw}$$

[Open Calculator !\[\]\(aff7c69c44a5e015f18c35867ef3f5c3\_img.jpg\)](#)

$$ex \quad 33800 = 5000 + 3000 + 25800$$



### 9) Net Domestic Product at Factor Cost

$$\text{fx } \text{NDP}_{\text{fc}} = \text{NDP}_{\text{mp}} - \text{NIT}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95\_img.jpg\)](#)

$$\text{ex } 20550 = 23550 - 3000$$

### 10) Net Domestic Product at Market Price

$$\text{fx } \text{NDP}_{\text{mp}} = \text{GDP}_{\text{mp}} - \text{D}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2\_img.jpg\)](#)

$$\text{ex } 23550 = 25050 - 1500$$

### 11) Net Factor Income from Abroad

$$\text{fx } \text{NFIA} = \text{NCE} + \text{NI}_{\text{pe}} + \text{N}_{\text{re}}$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7\_img.jpg\)](#)

$$\text{ex } 1240 = 590 + 200 + 450$$

### 12) Operating Surplus

$$\text{fx } \text{OS} = \text{VO} - \text{ICN} - \text{CE} - \text{MI} - \text{CFC} - \text{NIT}$$

[Open Calculator !\[\]\(899d8b7697d64725bf017d3296cfcf1b\_img.jpg\)](#)

$$\text{ex } 29415 = 80000 - 25080 - 18000 - 2000 - 2505 - 3000$$


### 13) Personal Disposable Income

$$\text{fx } \text{PDI} = \text{PI} - \text{PT} - \text{MRG}$$

[Open Calculator !\[\]\(40770d9ed6ed4f1222ebf89a1396e8b2\_img.jpg\)](#)

$$\text{ex } 9000 = 20000 - 1000 - 10000$$



14) Private Final Consumption Expenditure 

$$fx \quad PFCE = HFCE + NPPIFCE$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a\_img.jpg\)](#)

$$ex \quad 50010 = 35000 + 15010$$

15) Real Effective Exchange Rate 

$$fx \quad REER = \frac{CPI_d \cdot NEER}{CPI_f}$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021\_img.jpg\)](#)

$$ex \quad 0.757353 = \frac{1.03 \cdot 0.75}{1.02}$$

16) Real Gross Domestic Product Per Capita 

$$fx \quad RGDPPC = \frac{RG}{TP}$$

[Open Calculator !\[\]\(bd3b31712ad9bab5a241210fa6925cdd\_img.jpg\)](#)

$$ex \quad 0.5 = \frac{50000}{100000}$$

17) Real Wage 

$$fx \quad RW = \frac{NW}{CPI}$$

[Open Calculator !\[\]\(7bc43b319a082987e20f7bf78f4bab80\_img.jpg\)](#)

$$ex \quad 2450.98 = \frac{2500000}{1020}$$



## 18) Simple Deposit Multiplier

[Open Calculator !\[\]\(eafc244b53721dd1ec133f0772f70fc7\_img.jpg\)](#)

$$\text{fx } SD_m = \frac{1}{rrr}$$

$$\text{ex } 1.111111 = \frac{1}{0.9}$$



## Variables Used

- **AD** Components of Aggregate Demand
- **ADF** Adjustment Factor
- **ALEY** Average Life Expectancy
- **C** Private Consumption Expenditure
- **CAI** Current Age of the Individual
- **CE** Compensation of Employees
- **CFC** Consumption of Fixed Capital
- **CPI** Consumer Price Index
- **CPI<sub>d</sub>** Consumer Price Index of Domestic Nation
- **CPI<sub>f</sub>** Consumer Price Index of Foreign Country
- **D** Depreciation
- **EM** Expenditure Multiplier
- **G** Government Expenditure
- **g<sub>m</sub>** Growth Rate of Money Supply
- **g<sub>y</sub>** Growth Rate of Real Gross Domestic Product
- **GDP<sub>fc</sub>** Gross Domestic Product at Factor Cost
- **GDP<sub>mp</sub>** Gross Domestic Product at Market Price
- **GNP<sub>mp</sub>** Gross National Product at Market Price
- **HFCE** Household Final Consumption Expenditure
- **I** Investment Expenditure
- **ICN** Intermediate Consumption
- **IDA** Initial Deposit Amount
- **INCPI** Initial Consumer Price Index



- **IT** Indirect Taxes
- **LE** Life Expectancy
- **MI** Mixed Income
- **MRG** Miscellaneous Receipts of Government
- **$N_{re}$**  Net Retained Earnings
- **NCE** Net Compensation of Employees
- **$NCT_{rw}$**  Net Current Transfers from the Rest of the World
- **NDI** National Disposable Income
- **$NDP_{fc}$**  Net Domestic Product at Factor Cost
- **$NDP_{mp}$**  Net Domestic Product at Market Price
- **NEER** Nominal Effective Exchange Rate
- **NFIA** Net Factor Income from Abroad
- **NI** National Income
- **$NI_{pe}$**  Net Income from Property and Entrepreneurship
- **NIT** Net Indirect Taxes
- **NPPIFCE** Non Profit Private Institutions FCE
- **NW** Nominal Wage
- **OS** Operating Surplus
- **PDI** Personal Disposable Income
- **PFCE** Private Final Consumption Expenditure
- **PI** Personal Income
- **PT** Personal Taxes
- **R** Rate of Inflation
- **REER** Real Effective Exchange Rate
- **RG** Real Gross Domestic Product
- **RGDPPC** Real Gross Domestic Product Per Capita





- **rrr** Required Reserve Ratio
- **RW** Real Wage
- **S<sub>s</sub>** Subsidies
- **SD<sub>m</sub>** Simple Deposit Multiplier
- **TP** Total Population
- **VO** Value of Output
- **X M** Net Exports
- **ΔG** Change in Government Spending
- **ΔM** Change in Money Supply
- **ΔR** Change in Bank Reserves



# Constants, Functions, Measurements used



## Check other formula lists

- [Macroeconomics Formulas](#) 
- [Microeconomics Formulas](#) 

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