

## Why Real GDP Matters

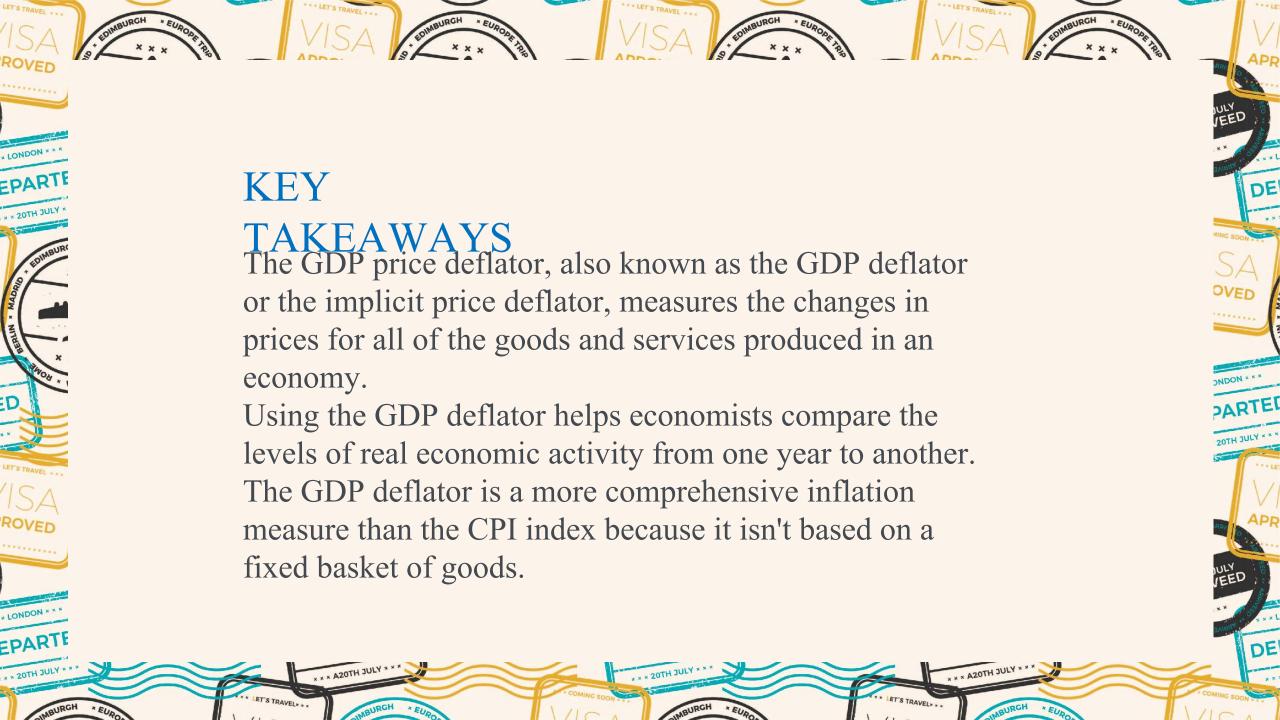
The total amount that the economy is producing and consuming is important to track over time. It is a key indicator of the overall health and growth of the economy, and it is used to determine economic policy going forward.

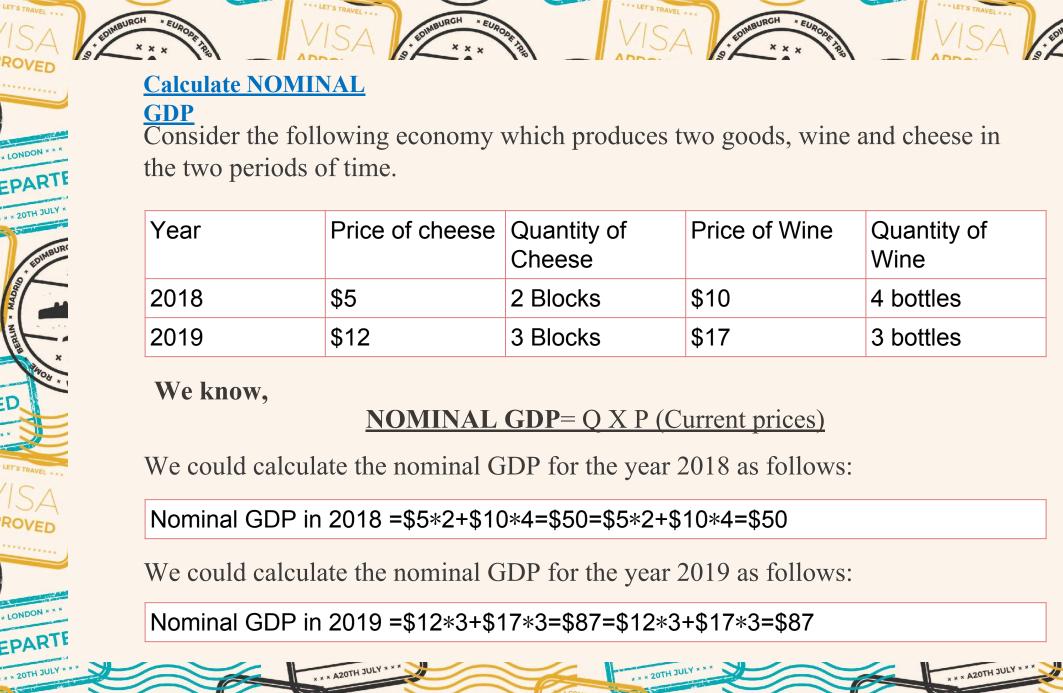


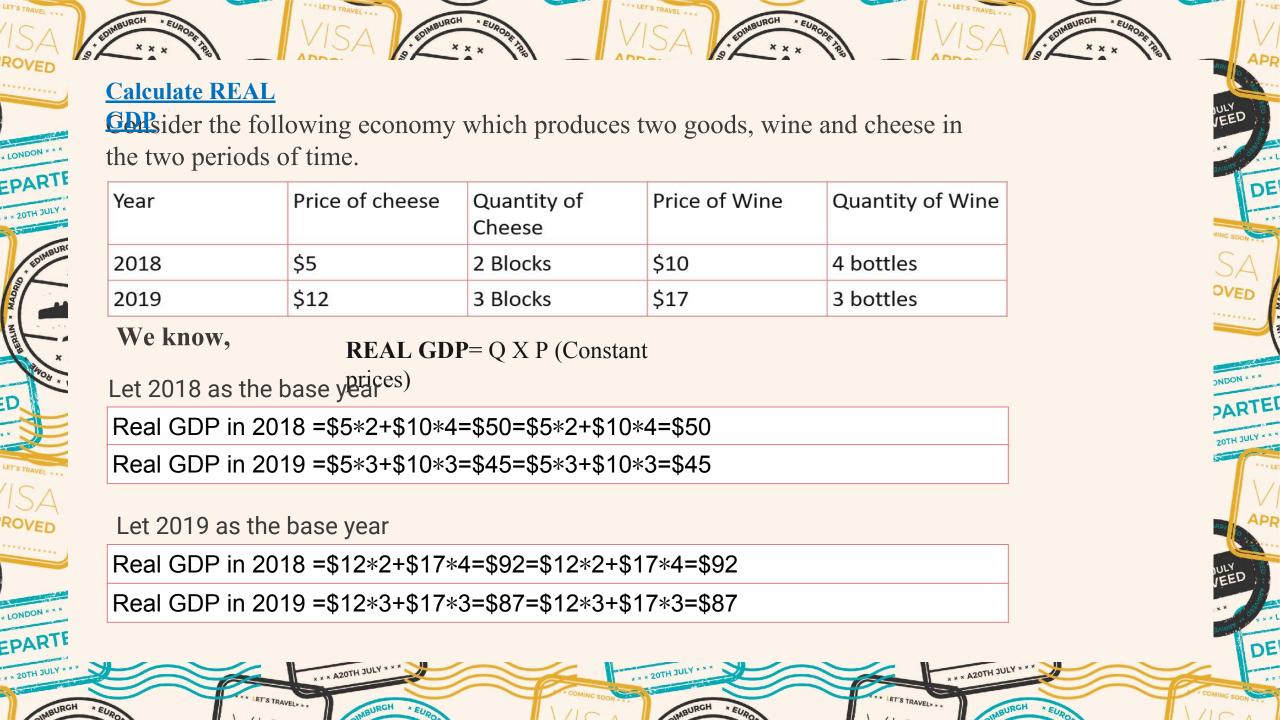
In <u>economics</u>, the GDP deflator (implicit price deflator) is a measure of the level of prices of all new, domestically produced, final goods and services in an economy in a year.

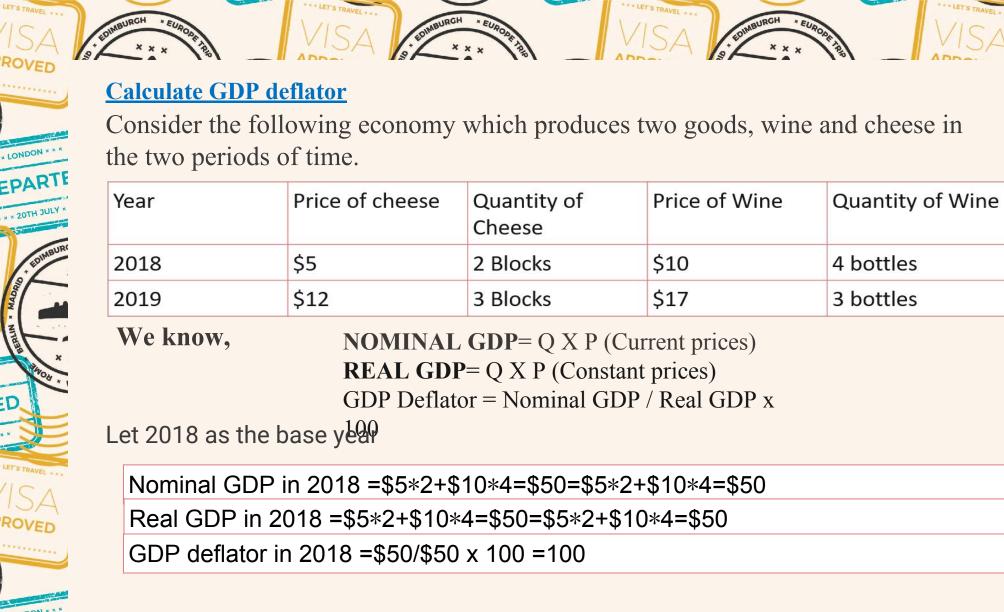
Formula:



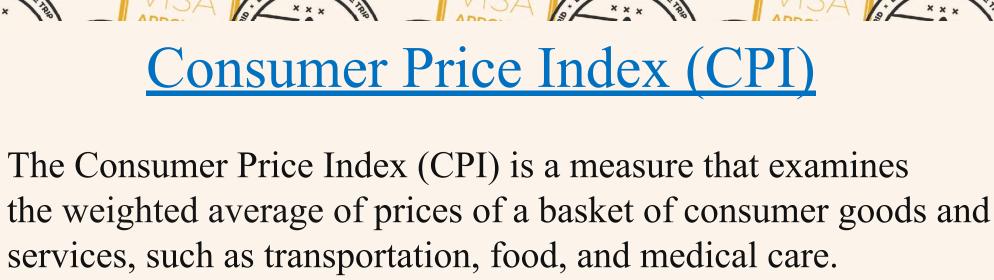






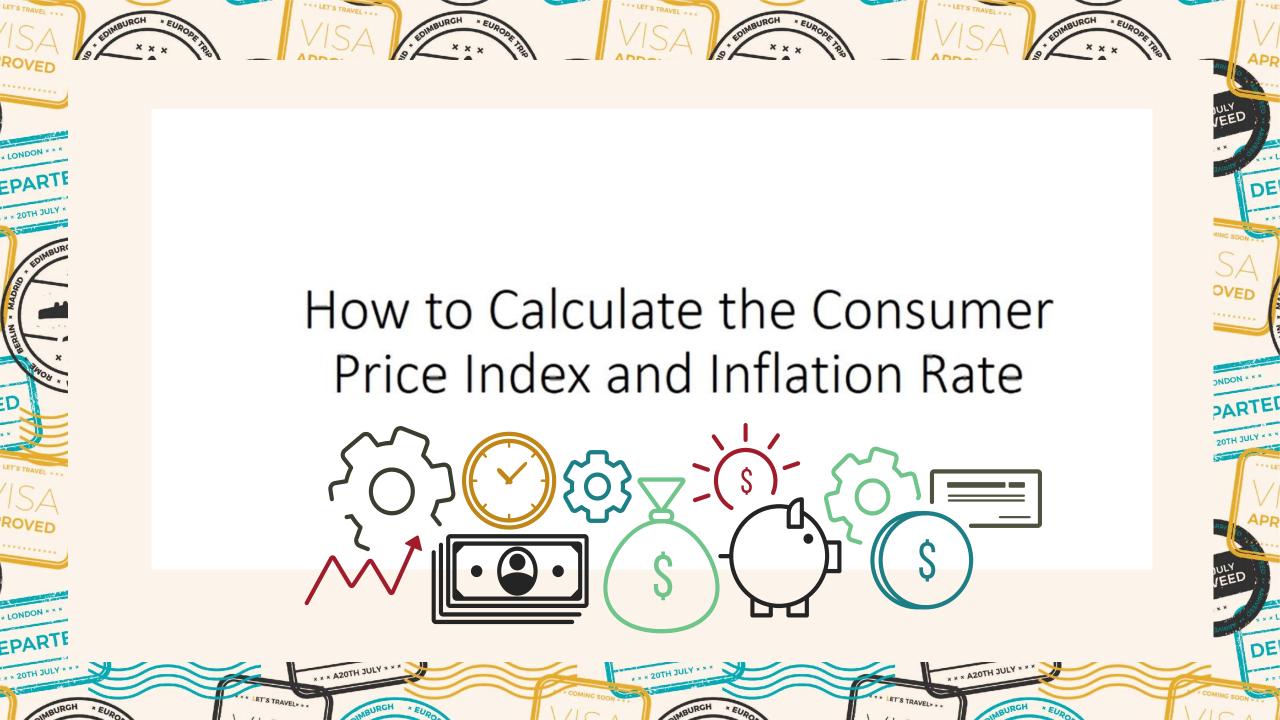


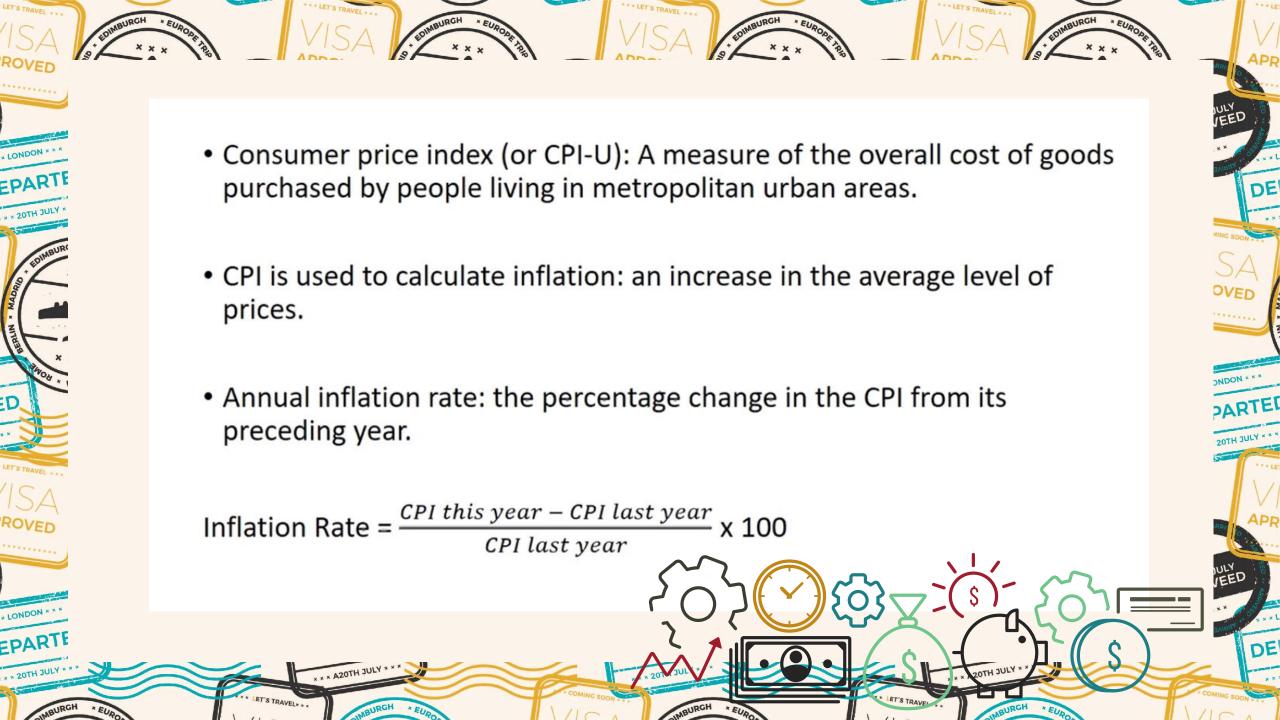
Try to calculate deflator in 2019 by yourself.



It is calculated by taking price changes for each item in the predetermined basket of goods and averaging them.

The CPI is one of the most frequently used statistics for identifying periods of **inflation or deflation**.







1. Calculate the total cost of purchasing the base year fixed basket (100 soccer balls, 40 shoes, and 20 concert tickets) in each year.

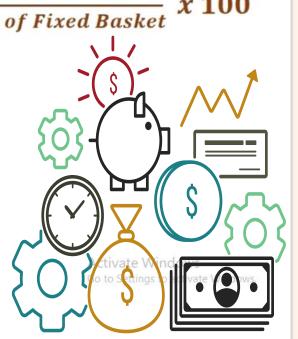
For 2016: 
$$(\$10 \times 100) + (\$50 \times 40) + (\$100 \times 20) = \$5,000$$

For 2017: 
$$($15 \times 100) + ($52 \times 40) + ($104 \times 20) = $5,660$$

For 2018: 
$$(\$18 \times 100) + (\$56 \times 40) + (\$110 \times 20) = \$6,240$$



1. • For 2016 (Base Year): (\$10 x 100) + (\$50 x 40) + (\$100 x 20) = \$5,000 • For 2017: (\$15 x 100) + (\$52 x 40) + (\$104 x 20) = \$5,660 • For 2018: (\$18 x 100) + (\$56 x 40) + (\$110 x 20) = \$6,240 CPI in Year  $X = \frac{Cost \ of \ Fixed \ Basket \ in \ Year \ X}{Base \ Year \ Cost \ of \ Fixed \ Basket}$ 2. Construct CPI Index: *CPI in*  $2016 = \frac{5000}{5000} \times 100 = 100$ *CPI in* 2017 =  $\frac{5660}{5000}$  *x* 100 = 113.2 CPI in 2018 =  $\frac{6240}{5000}$  x 100 = 124.8 EPARTE





- CPI in 2016 = 100
- *CPI* in 2017 = 113.2
- CPI in 2018 = 124.8

Inf. Rate = 
$$\frac{CPI \ this \ year - CPI \ last \ year}{CPI \ last \ year} \times 100$$

## 3. Calculate the inflation rate in 2017 and 2018

Inflation rate 2017 = 
$$\frac{113.2 - 100}{100} \times 100 = 13.2\%$$

Inflation rate 2018 = 
$$\frac{124.8 - 113.2}{113.2}$$
  $x$  100 = 10.25%





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