

Chapter 23

1. a. Complete the following table.

	Type 1	Type 2	Type 3
Gross Domestic Product	4,532	4,804	
Consumption		3,320	3,544
Investment	589	629	673
Government Purchases	861		977
Net Exports	-45	-58	-54

- b. What is the largest expenditure component of GDP?
- c. Does investment include the purchase of company shares and bonds? Why?
- d. Do government purchases include government spending on unemployment benefit? Why?
- e. What does it mean to say that net exports are negative?

2. Suppose the base year in the following table is 2004.

Year	Production of X	Price per Unit of X
2004	20 units	€5
2005	20 units	10
2006	20 units	20

- a. What is nominal GDP for 2004, 2005, and 2006?
 - b. What is real GDP for 2004, 2005, and 2006?
3. Suppose the following table records the total output and prices for an entire economy. Further, suppose the base year in the following table is 2004.

Year	Price of Soda	Quantity of Soda	Price of Jeans	Quantity of Jeans
2004	€1.00	200	€10.00	50
2005	1.00	220	11.00	50

- a. What is the value of nominal GDP in 2004?
- b. What is the value of real GDP in 2004?
- c. What is the value of nominal GDP in 2005?
- d. What is the value of real GDP in 2005?
- e. What is the value of the GDP deflator in 2004?

- f. What is the value of the GDP deflator in 2005?
 - g. From 2000 to 2001, prices rose approximately what percentage?
 - h. Was the increase in nominal GDP from 2000 to 2001 mostly due to an increase in real output or due to an increase in prices?
4. Complete the following table.

Year	Nominal GDP	Real GDP	GDP deflator
1		€100	100
2	€120		120
3	150	125	

- a. What year is the base year? How can you tell?
- b. From year 1 to year 2, did real output rise or did prices rise? Explain?
- c. From year 2 to year 3, did real output rise or did prices rise? Explain?