# **Topics**

- 1. Imputations in the GDP
- 2. GDP deflator and classifying price indices
- 3. Problems from the textbook

## 1. <u>Imputations in the GDP</u>

• estimates regarding components of GDP (i.e. goods and services) that are not sold in the marketplace.

#### Notable examples:

1. Value of housing for homeowners - GDP includes what rent would be if the home was available for rent instead of owner-occupied.

### 2. GDP deflator and classifying price indices

GDP deflator = Nominal GDP / Real GDP = Price today / Base price

Paasche index - price index where the basket of goods is allowed to change

Laspeyres index - price index where the basket of goods is fixed

CPI - price of a basket of goods and services purchased by a typical consumer relative to the price of the same basket in some base year.

#### Note:

- GDP deflator is a **Paasche index** because it's calculation depends what is *produced* in a given year relative to a base year. If production changes in a given year, this shows up in the GDP deflator.
- CPI is a **Laspeyres index** it's calculation depends on the consumption of the typical consumer.

- · Consider the apples and oranges example. Suppose in the first year, production is normal. In the next year, a harsh winter makes it impossible to produce oranges that year. Lastly, suppose that the typical consumer purchases five apples and two oranges in a given year.
- · Notice the different effects on the two price indices year + year:

they: CPI keeps the basket of goods purchased by the typical consumer fixed from year to year. The weights/quantities used to compute 60p were determined by how much was produced in a given year.