Measuring Inflation

$$\eta_{_{^{Method_1}}} > \eta_{_{^{True}}} > \eta_{_{^{Method_2}}}$$



Lectures in Macroeconomics- Charles W. Upton

The Problem

 The inflation rate measures how the prices of goods and services - measured in pictures of George Washington or your favorite national hero - change over time.



Measuring Inflation

The Problem

- The inflation rate measures how the prices of goods and services - measured in pictures of George Washington or your favorite national hero - change over time.
- If we had a simple one-crop agricultural economy, there would be no problem.



Measuring Inflation

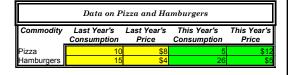
The Problem

- The inflation rate measures how the prices of goods and services - measured in pictures of George Washington or your favorite national hero - change over time.
- If we had a simple one-crop agricultural economy, there would be no problem.
- In the real world, we must also deal with changes in relative prices, so that the measurement of the inflation index is more complicated.



Measuring Inflatio

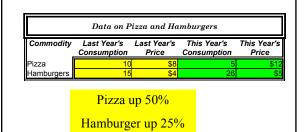
An Example



KENT STATE

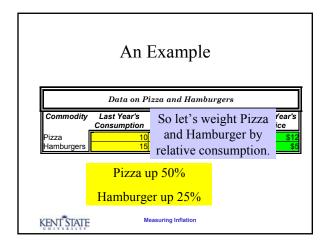
Measuring Inflation

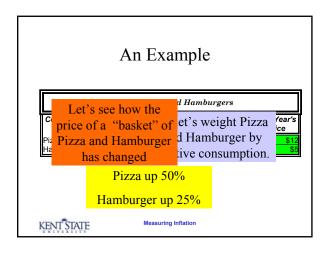
An Example

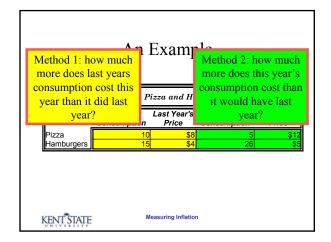


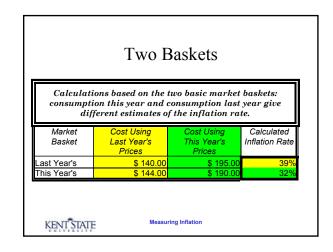
KENT STATE

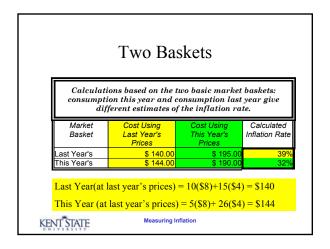
Measuring Inflation

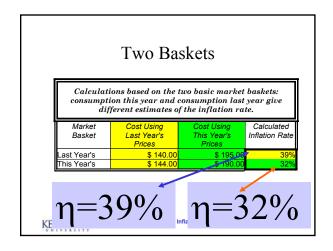












Additional Problems

- Quality Changes
- This year, Miller's Pizzeria has increased the amount of cheese on each of its pizzas.
- A day in the hospital, for instance, is not the same as a day in the hospital 40 years ago



Measuring Inflation

Additional Problems

- · Quality Changes
- New Products
- Miller's Pizzeria has broadened its product line to include the Blonde Vermonter, made with ham and apple slices.
- How do you account for the introduction of new goods?



Measuring Inflation

Additional Problems

- · Quality Changes
- · New Products
- New Outlets
- Last year, you had to drive 50 miles to Miller's pizzeria. This year, it opened a store just down the street. While the prices are the same, the full cost *including travel cost* is down substantially.



Measuring Inflation

Additional Problems

- · Quality Changes
- New Products
- · New Outlets
- Substitution
- If some prices rise by more than others, consumers are likely to substitute the cheaper good for the more expensive one. How should we account for this substitution?



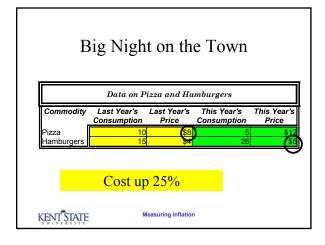
Measuring Inflation

Additional Problems

- · Quality Changes
- New Products
- · New Outlets
- Substitution
- Buying Cheap
- When the Uptons go out for dinner, they either get a pizza or two hamburgers, depending on which costs less.



Measuring Inflation



The Boskin Report

- Failure to adjust for the substitution effect overstated the inflation rate by 0.4% a year.
- Failure to adjust for new products and improved quality overstated the inflation rate by 0.6% a year.
- Failure to adjust for new outlets overstated the inflation rate by 0.1% a year.



Measuring Inflation

