

Exercise walk-through

Price Indices and Inflation ■ 2.4

eXercise

You must be able to

- define **inflation** 通货膨胀, **deflation** 通货紧缩, and **disinflation** 通胀放缓
- explain how the **Consumer Price Index (CPI)** 消费者价格指数 is built from a fixed basket
- calculate the **inflation rate** as the percentage change in a price index
- compute a price index with
$$\text{index} = \frac{\text{cost now}}{\text{cost in base year}} \times 100$$

Method — The CPI

Track the cost of a **fixed basket** of goods:
$$\text{CPI} = \frac{\text{cost of basket now}}{\text{cost in base year}} \times 100.$$
 The base year has $\text{CPI} = 100$.

Method — The inflation rate

The **percentage change** in the index between two periods:

$$\text{inflation rate} = \frac{\text{new index} - \text{old index}}{\text{old index}} \times 100.$$

Method — The three terms

Inflation = rising prices; **deflation** = falling prices; **disinflation** = inflation that is still positive but **slowing**.

Practice 2.1 ■ 1 mark

Define inflation.

Solution 2.1

Worked steps

a sustained rise in the general price level **B1**.

Practice 2.2 ■ 2 marks

A basket costs \$250 now and \$200 in the base year. Find the CPI.

Solution 2.2

Method: The CPI

Worked steps

$$\text{CPI} = \frac{250}{200} \times 100 = 125 \quad \text{M1} \quad \text{A1}.$$

Practice 2.3 ■ 2 marks

The CPI rises from 120 to 126. Find the inflation rate.

Solution 2.3

Method: The inflation rate

Worked steps

$$\frac{126 - 120}{120} \times 100 = 5\% \quad \text{M1} \quad \text{A1}.$$

Exam-style 3.1 ■ 1 mark

The CPI is based on

- A** every good in the economy
- B** a fixed basket of goods
- C** food only
- D** exports

Solution 3.1

A every good in the economy

B a fixed basket of goods 

C food only

D exports

Worked steps

B.

Exam-style 3.2 ■ 1 mark

Disinflation means that

- A** prices are falling
- B** inflation is slowing but still positive
- C** prices are rising very fast
- D** there is no inflation at all

Solution 3.2

- A prices are falling
- B inflation is slowing but still positive 
- C prices are rising very fast
- D there is no inflation at all

Worked steps

B.

Exam-style 3.3 ■ 2 marks

A basket cost \$400 in 2020 (the base year) and \$460 in 2024.

- (a) Find the 2024 CPI.
- (b) State the total percentage rise in prices.

Solution 3.3

Method: The CPI

Worked steps

$$(a) \text{ CPI} = \frac{460}{400} \times 100 = 115 \quad \text{M1 A1}. \quad (b) \text{ 15\%} \quad \text{B1}.$$