

Exercise walk-through

Inequality ■ 6.5

eXercise

You must be able to

- distinguish **income inequality** 收入不平等 from **wealth inequality** 财富不平等
- interpret a **Lorenz curve** 洛伦兹曲线
- calculate and interpret the **Gini coefficient** 基尼系数
- distinguish **progressive** 累进, **proportional** 比例, and **regressive** 累退 tax structures

Method — Income vs wealth

Income is a flow (earnings over a period); **wealth** is a stock (accumulated assets).
Wealth is usually more unequal.

Method — Lorenz curve and Gini

The **Lorenz curve** plots the cumulative share of income against the cumulative share of the population; the further it bows from the 45-degree line, the more unequal. The **Gini coefficient** ranges from 0 (perfect equality) to 1 (perfect inequality).

Method — Tax structures

Progressive — the rate rises with income; **proportional** — a flat rate; **regressive** — the rate falls as income rises. Progressive taxes reduce inequality.

Practice 2.1 ■ 2 marks

State the difference between income and wealth inequality.

Solution 2.1

Worked steps

income inequality is about the flow of earnings; wealth inequality is about the stock of accumulated assets **B1** **B1**.

Practice 2.2 ■ 1 mark

State what a Gini coefficient of 0 means.

Solution 2.2

Method: Lorenz curve and Gini

Worked steps

perfect equality (everyone has the same income) **B1**.

Practice 2.3 ■ 2 marks

State the difference between a progressive and a regressive tax.

Solution 2.3

Method: Tax structures

Worked steps

a progressive tax takes a larger share of income as income rises; a regressive tax takes a smaller share as income rises **B1** **B1**.

Exam-style 3.1 ■ 1 mark

A Lorenz curve plots the distribution of

- A** prices
- B** income
- C** output
- D** interest rates

Solution 3.1

Method: Lorenz curve and Gini

A prices

B income



C output

D interest rates

Worked steps

B.

Exam-style 3.2 ■ 1 mark

A progressive tax takes a _____ share of income as income rises.

A smaller

B larger

C constant

D zero

Solution 3.2

Method: Tax structures

A smaller

B larger



C constant

D zero

Worked steps

B.

Exam-style 3.3 ■ 1 mark

A country's Gini coefficient rises from 0.30 to 0.45.

- (a) State whether inequality rose or fell.
- (b) State what a Gini of 0 would mean.
- (c) Name a tax structure that reduces inequality.

Solution 3.3

Method: Lorenz curve and Gini

Worked steps

(a) it rose **B1**. (b) perfect income equality **B1**. (c) a progressive tax **B1**.