

3.7 Total Fertility Rate

Name: _____ Class: _____ Date: _____ **Total: 9 marks**

KEY WORDS total fertility rate 总和生育率 • replacement level 更替水平

Objective

Build the skills to answer exam questions on **total fertility rate (TFR)**.

You must be able to:

- define **total fertility rate** 总和生育率
- compare TFR to **replacement level** 更替水平 (~2.1)
- link TFR to population growth or decline

1 Worked examples

Study these first. Each one shows the method for a question type used later — follow the steps and you can do the Practice and Exam-style questions yourself.

■ Total fertility rate

TFR is the average number of children a woman is expected to have in her lifetime.

■ Replacement level

Replacement-level fertility is about **2.1** (two to replace the parents, plus a bit for child mortality). At replacement, the population is roughly **stable** long-term.

■ TFR and growth

- **TFR** > 2.1 → population grows.
- **TFR** = 2.1 → roughly stable.
- **TFR** < 2.1 → population eventually declines.

■ Factors that lower TFR

TFR falls with **education of women**, **access to family planning**, urbanization, and higher child survival. Developed countries tend to have lower TFRs.

2 Practice

Now apply the methods above.

2.1 Define total fertility rate. [1]

2.2 What is the approximate replacement-level TFR? [1]

2.3 A country has a TFR of 1.5. Will its population grow or decline (long-term)? [1]

3 Exam-style questions

3.1 A TFR above 2.1 leads to a population that [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** grows
B stays exactly constant
C declines
D disappears

3.2 Country X has a TFR of 4.5; country Y has a TFR of 1.8.

(a) State which population is growing and which is declining. [2]

(b) State one factor that lowers TFR. [1]

3.3 Explain why the replacement-level TFR is slightly above 2, not exactly 2. [2]