

# 6.11 Challenges of Urban Sustainability

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Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Total: 10 marks

## Objective

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Build the skills to answer exam questions on **challenges of urban sustainability** 城市可持续性的挑战.

**You must be able to:**

- explain how sprawl harms sustainability
- explain sanitation and housing-affordability challenges
- link cities to **climate change** 气候变化
- state one sustainable solution

## 1 Worked examples

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Study these first. Each one shows the method for a task used later.

### ■ Sprawl and services

**Sprawl** raises car use, emissions, and the cost of extending water, power, and transit, while covering farmland and habitat.

### ■ Sanitation and housing

Fast-growing cities can struggle to supply clean water and **sanitation**, and rising demand makes **housing** unaffordable, forcing informal settlements.

### ■ Climate and solutions

Cities produce most greenhouse-gas emissions. Solutions include public transit, green building, denser smart growth, and affordable housing.

## 2 Practice

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2.1 Explain how urban sprawl harms sustainability.

[2]

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**2.2** State two challenges a fast-growing city faces in providing for residents. [2]

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**2.3** A booming city has spreading informal settlements without proper sanitation.

(a) State one health risk this creates. [1]

(b) State one sustainable response. [1]

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### 3 Exam-style questions

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**3.1** A major sustainability problem caused by urban sprawl is [1]

- **A** less driving
  - **B** higher car use and emissions
  - **C** cheaper services
  - **D** protected farmland
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**3.2** A sustainable response to unaffordable city housing is to [1]

- **A** ban all building
  - **B** build affordable, denser housing near transit
  - **C** expand low-density sprawl
  - **D** remove sanitation
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**3.3** Cities produce most of the world's greenhouse-gas emissions.

(a) State one reason cities emit so much. [1]

(b) State one policy to cut a city's emissions. [1]

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### 4 Go further

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- work through the **6.11 Challenges of Urban Sustainability** lesson on the **Learn** page;

- read the **Cities and Urban Land-Use** section of the AP Human Geography handout on the **Know** page.

## Solutions

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**2.1** it increases driving/emissions and the cost of services; it consumes farmland and habitat.

**2.2** any two of: clean water/sanitation, affordable housing, transit, waste, power.

**2.3** (a) spread of disease from poor water/sanitation. (b) invest in water/sanitation, affordable formal housing, upgrading.

**3.1 B.** sprawl increases driving and emissions.

**3.2 B.** affordable dense housing near transit is a sustainable fix.

**3.3** (a) concentrated transport, energy use, industry, and buildings. (b) public transit, green buildings, renewable energy, smart growth.