



National
Qualifications
2019

X833/76/12

**Geography
Global Issues and
Geographical Skills**

TUESDAY, 28 MAY

11:20 AM – 12:30 PM

Total marks — 60

SECTION 1 — GLOBAL ISSUES — 40 marks

Attempt **TWO** questions.

SECTION 2 — APPLICATION OF GEOGRAPHICAL SKILLS — 20 marks

Attempt the question.

You will receive credit for appropriately labelled sketch maps and diagrams.

Write your answers clearly in the answer booklet provided. In the answer booklet you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give your answer booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



SECTION 1 — GLOBAL ISSUES — 40 marks

Attempt TWO questions

Question 1 — River basin management

Diagram Q1A Blue Nile Basin and location of the Grand Ethiopian Renaissance Dam

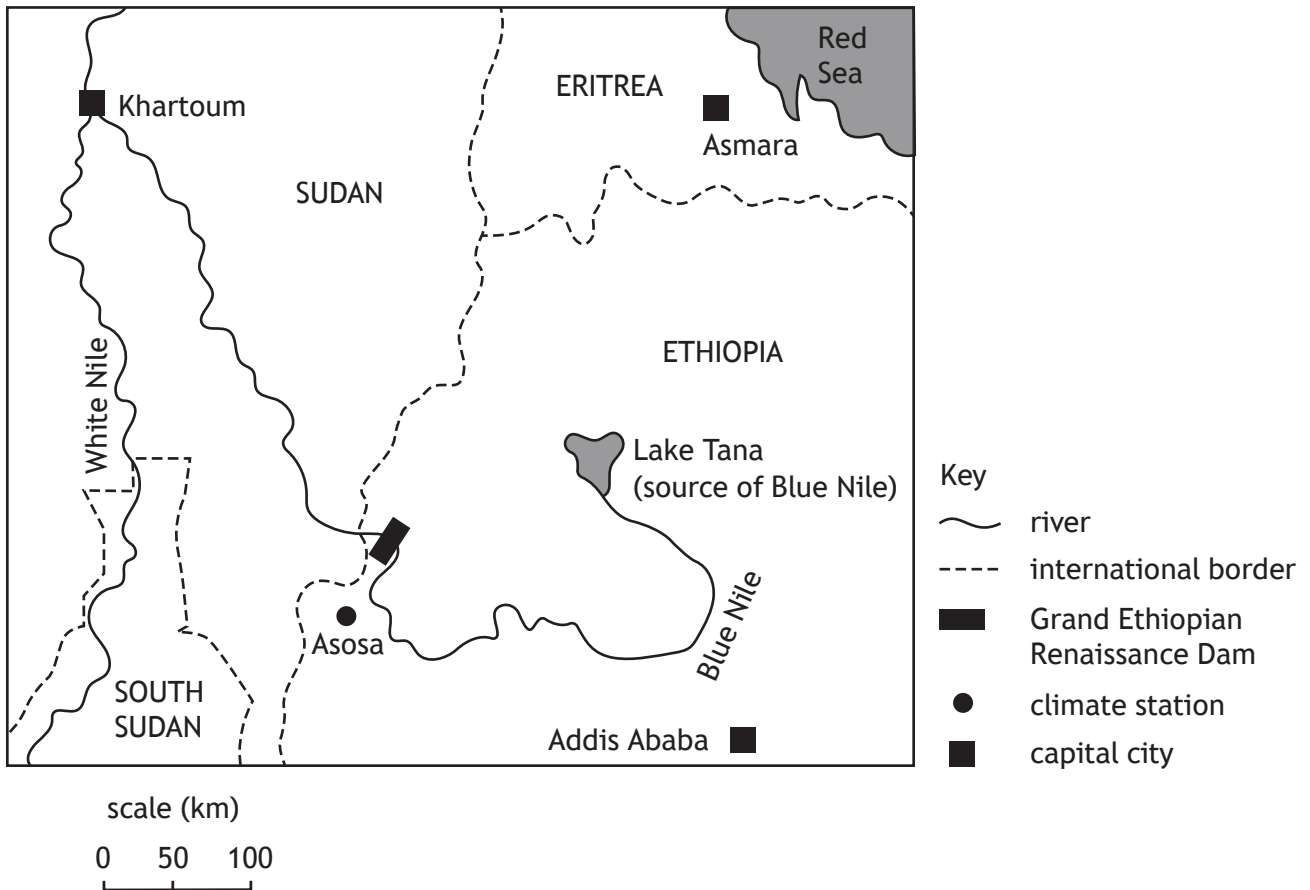


Diagram Q1B Blue Nile average monthly flow, near site of dam

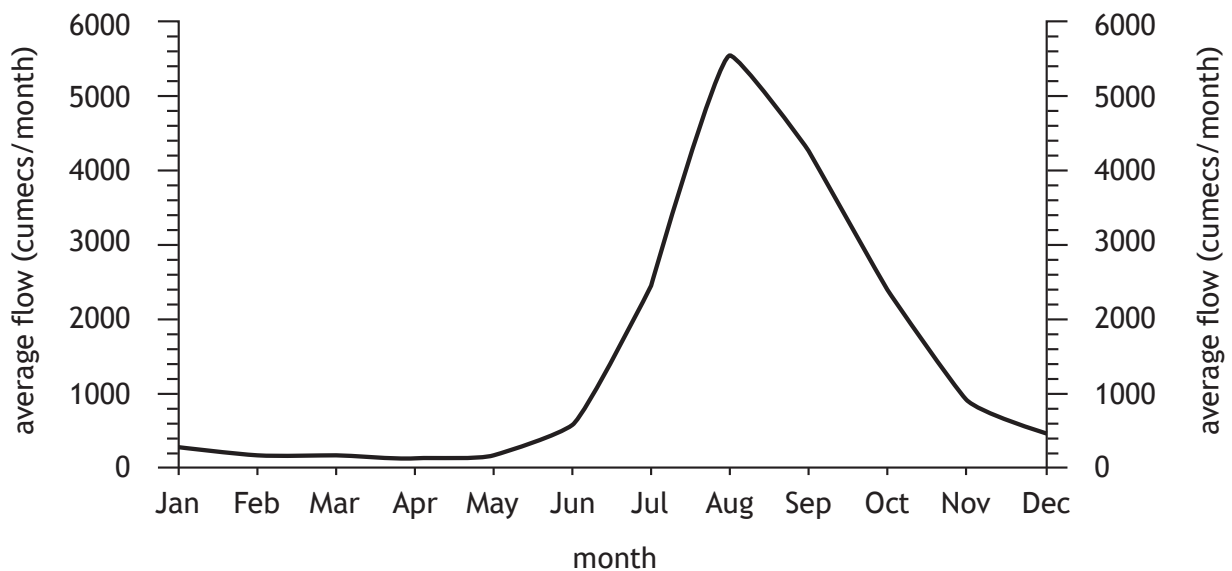


Diagram Q1C Climate graph for Asosa, Ethiopia

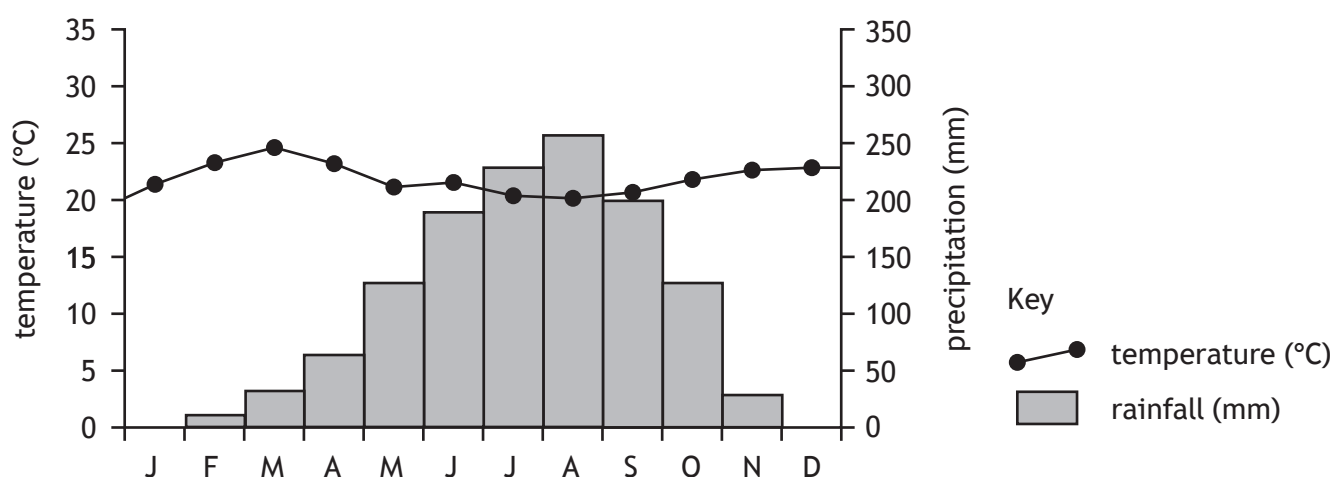


Diagram Q1D Population growth in Ethiopia

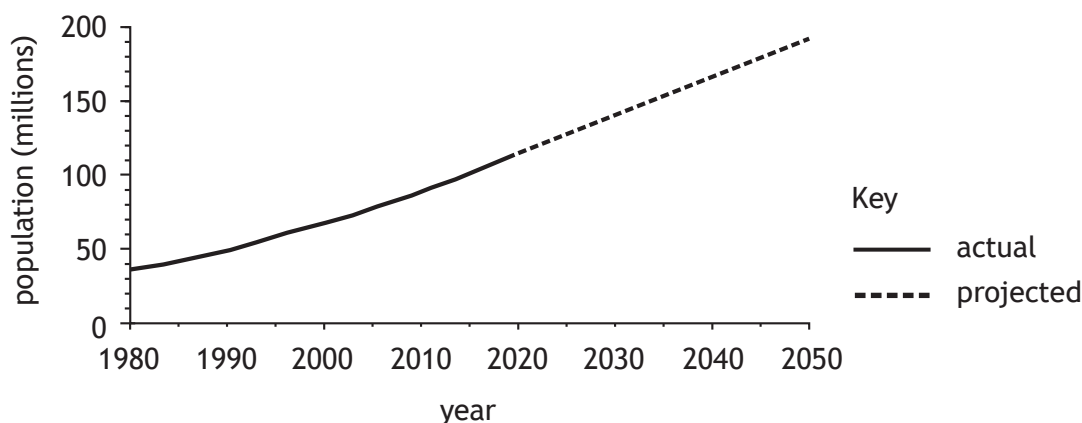


Diagram Q1E Selected statistics, Ethiopia

Population with access to improved drinking water	57%
Population with access to improved sanitation	28%
Population with access to electricity	24%
Population employed in agriculture	73%

- (a) Study Diagram Q1A, Diagram Q1B, Diagram Q1C, Diagram Q1D, and Diagram Q1E.

Explain why there is a need for water management in the Blue Nile Basin, Ethiopia.

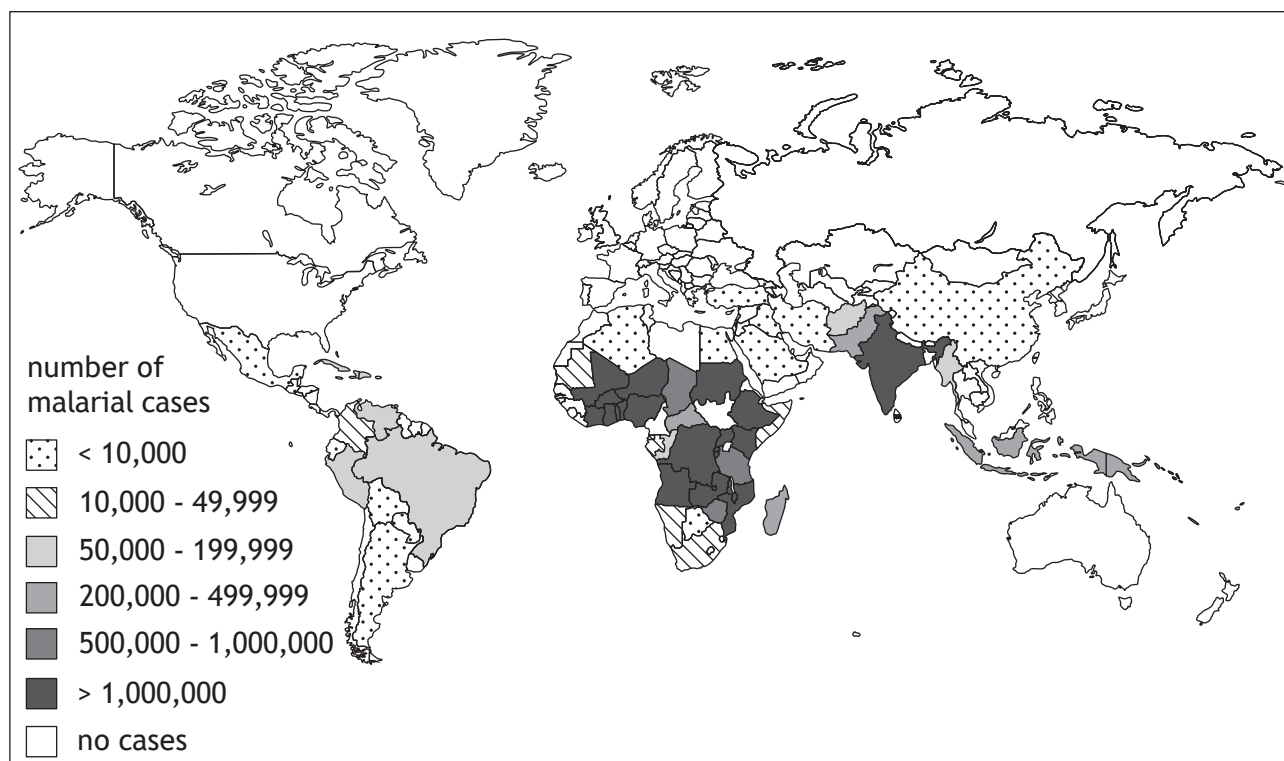
10

- (b) **Discuss** the **negative** socio-economic and environmental consequences of a named river management project that you have studied.

10

Question 2 — Development and health

Diagram Q2 World distribution of malaria in 2018



Look at Diagram Q2.

Water-related diseases such as malaria have many impacts on the development of a country.

Referring to malaria, or any other water-related disease you have studied,

(a) **discuss** the impacts on people and the economy **and**

6

(b) **explain** the strategies used to manage the disease.

14

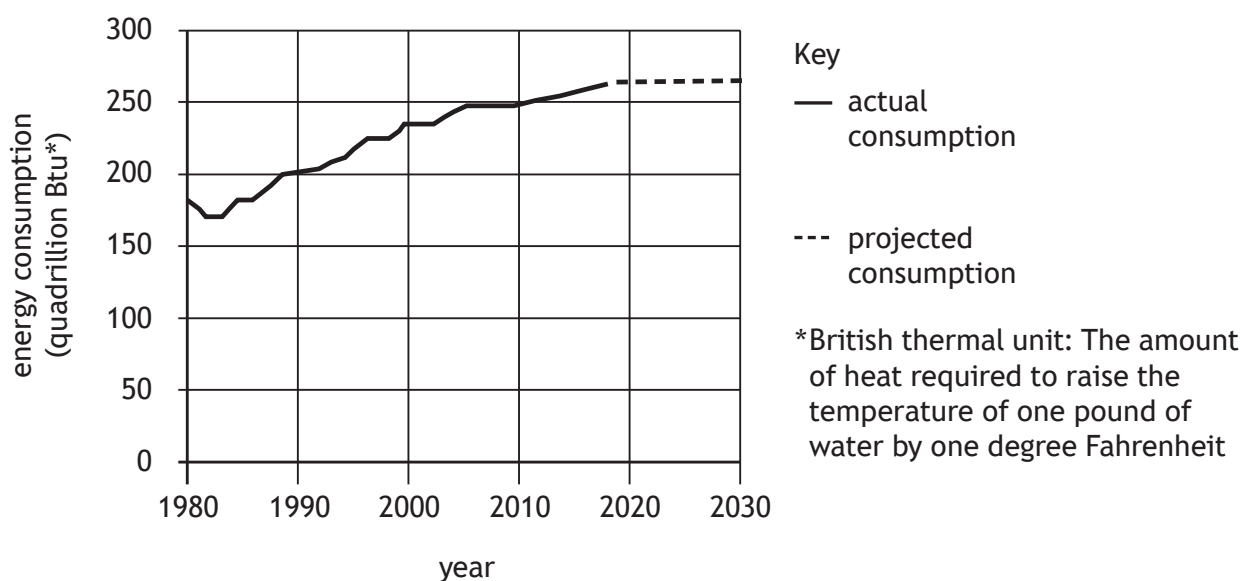
Question 3 — Global climate change

- | | |
|---|----|
| (a) Explain the physical factors that contribute to global climate change. | 8 |
| (b) Explain possible strategies for managing climate change. | 12 |

[Turn over

Question 4 — Energy

Diagram Q4A Energy consumption in developed countries (1980–2030)



(a) Study Diagram Q4A.

- Describe** the changes shown in Diagram Q4A and
- suggest reasons** for the trends in energy consumption in developed countries.

10

Diagram Q4B Photograph of a wind farm in Cumbria



(b) Look at Diagram Q4B.

Comment on the effectiveness of wind power, or any other renewable source of energy you have studied, in meeting the energy demands of a country.

10

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Attempt the question

Question 5

Plans to build a third runway at Heathrow Airport (London) have been approved. Whilst the expansion of the airport has been supported by the UK Government and many industries, it has been met with objections from local residents and environmentalists.

Plans for a third runway include

- new passenger terminals and underground passenger transit and baggage systems
- land set aside for new commercial opportunities such as offices and hotels
- increased rail capacity, from 18 to 40 trains per hour, and improvements to bus and coach services.

Study the Ordnance Survey map extract of the Heathrow area, Diagram Q5A, Diagram Q5B, Diagram Q5C and Diagram Q5D before answering this question.

Referring to map evidence from the OS map extract, and information from the other sources, **discuss**

- the advantages **and** disadvantages of the proposed site of the airport expansion **and**
- any potential social, economic or environmental impacts this development may have on the surrounding area.

20

Diagram Q5A Location map of current Heathrow Airport and site for expansion

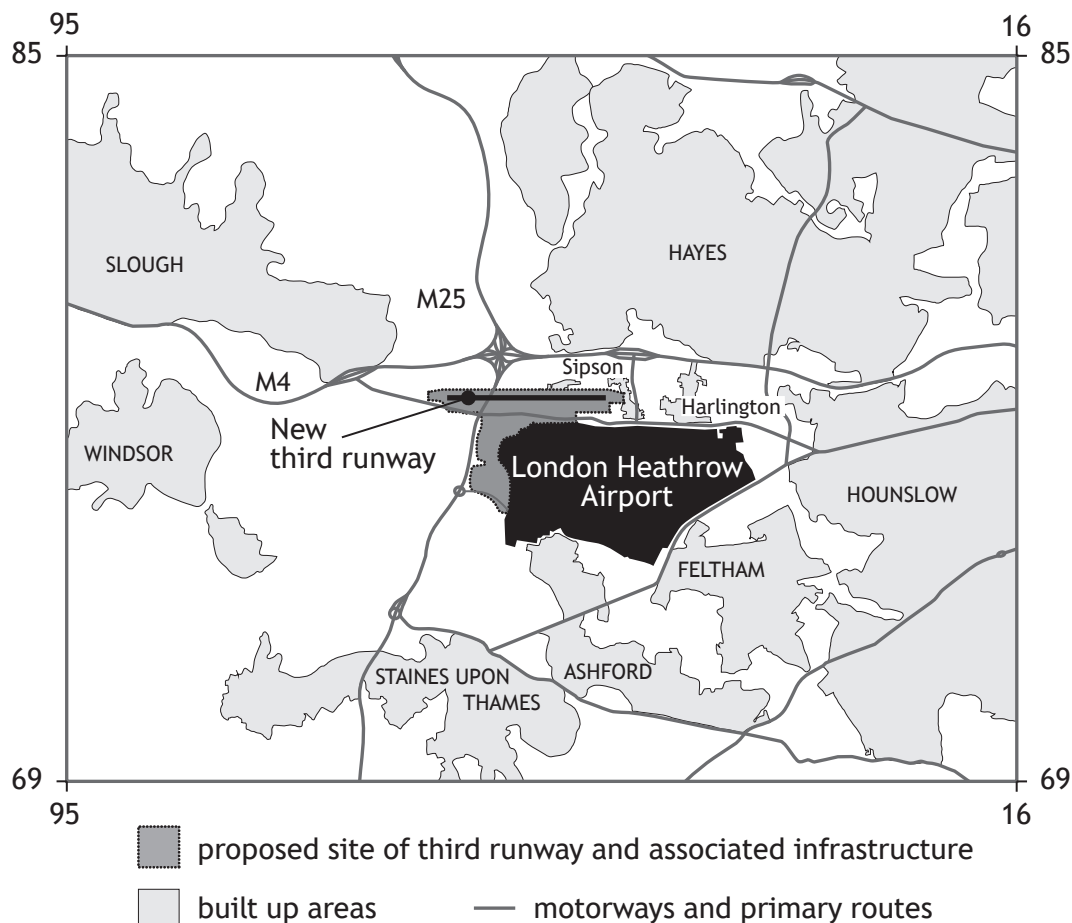


Diagram Q5B Heathrow passenger numbers

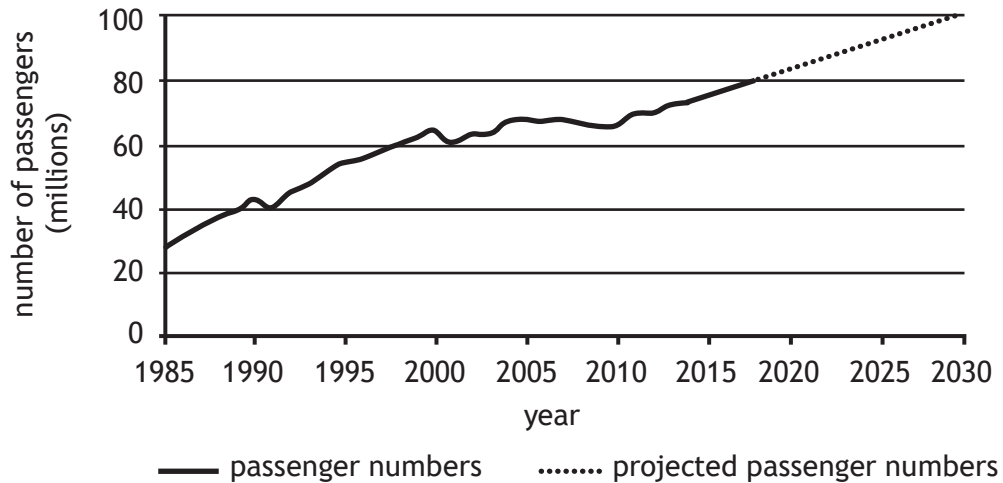


Diagram Q5C Heathrow cargo in tonnes

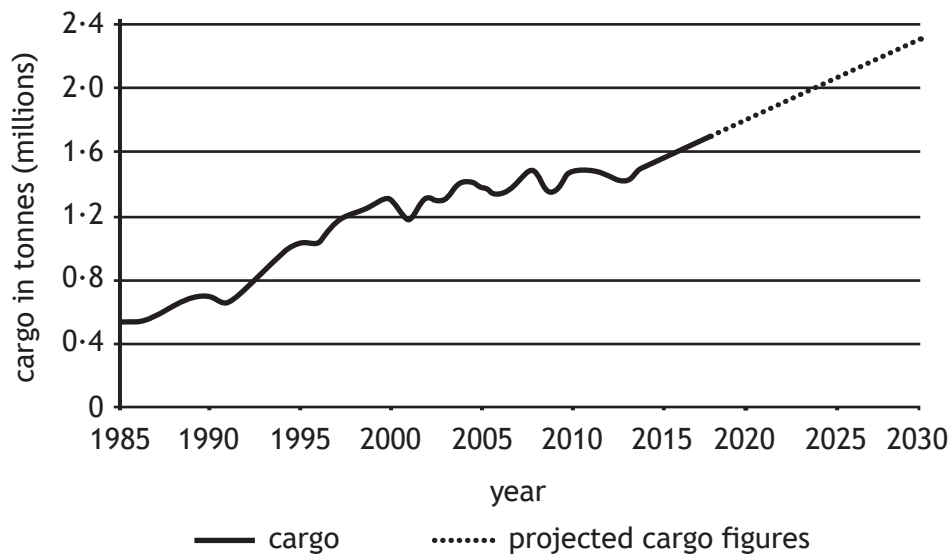
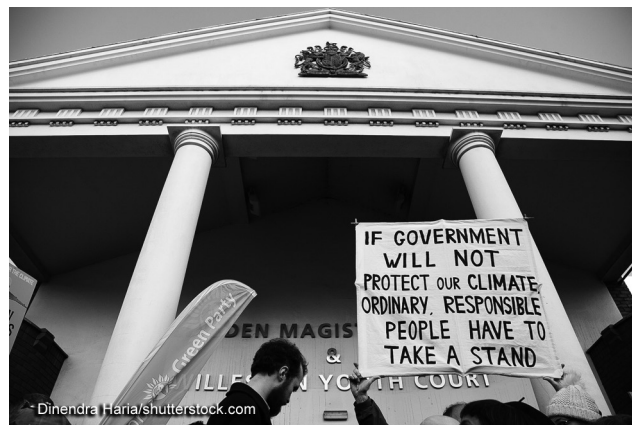


Diagram Q5D Heathrow protestors



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Diagram Q4B ATGImages/Shutterstock.com

Diagram Q5D Dinendra Haria/Shutterstock.com