

Candidate Name

Centre Number

Candidate  
Number

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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS****General Certificate of Secondary Education****GEOGRAPHY SPECIFICATION A**

PAPER 4 HIGHER TIER

**SPECIMEN PAPER FOR JUNE 2003****1986/4**

1 hour

Candidates answer on the question paper.

Additional materials:

Map Extract (1986/3&amp;4/M)

Photograph Sheet (1986/3&amp;4/P)

**TIME** 1 hour**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided on the question paper.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question.

You will be awarded up to 2 marks for the quality of written communication.

Additional answer space is available on the lined page at the back of this book. Answers on this page **must** be clearly numbered.

FOR EXAMINER'S USE	
Question 1	
Question 2	
QWC	
TOTAL	

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**This specimen paper consists of 11 printed pages and 1 lined page.**

1 (a) Study Fig. 1a.

Map showing part of North Western England

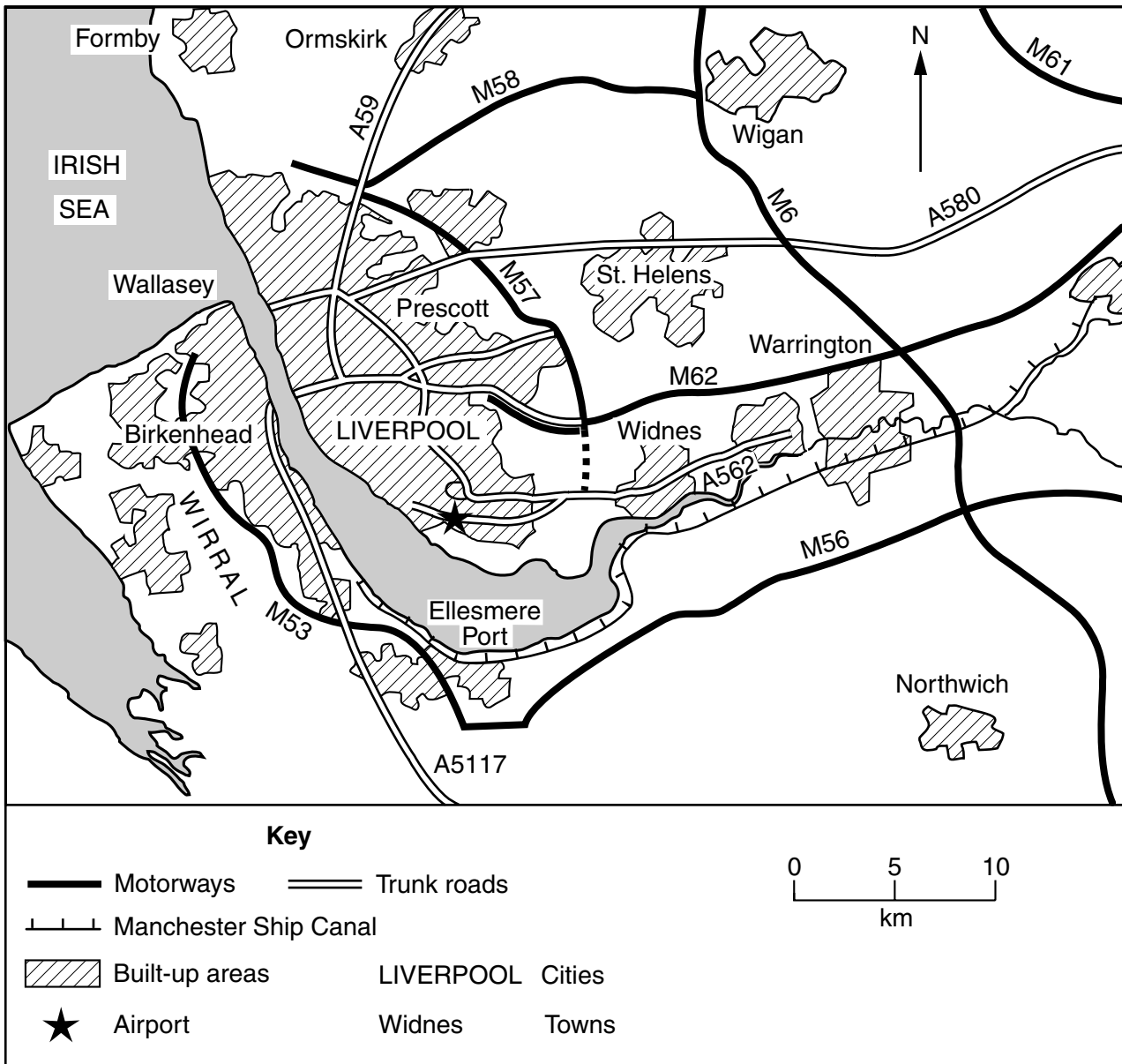


Fig. 1a

(i) What is the direction of Liverpool Airport from St. Helens?

[1]

(ii) Describe the location of St. Helens.

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[3]

(b) Study Photograph A on the separate sheet along with Fig. 1a. Photograph A is a satellite image of the area which is shown in Fig. 1a.

(i) Which two squares on the satellite image are linked by the Manchester Ship Canal?

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[1]

(ii) Describe the differences in land use between the areas to the **north** and **south** of the Manchester Ship Canal. You should refer to places shown in Fig. 1a.

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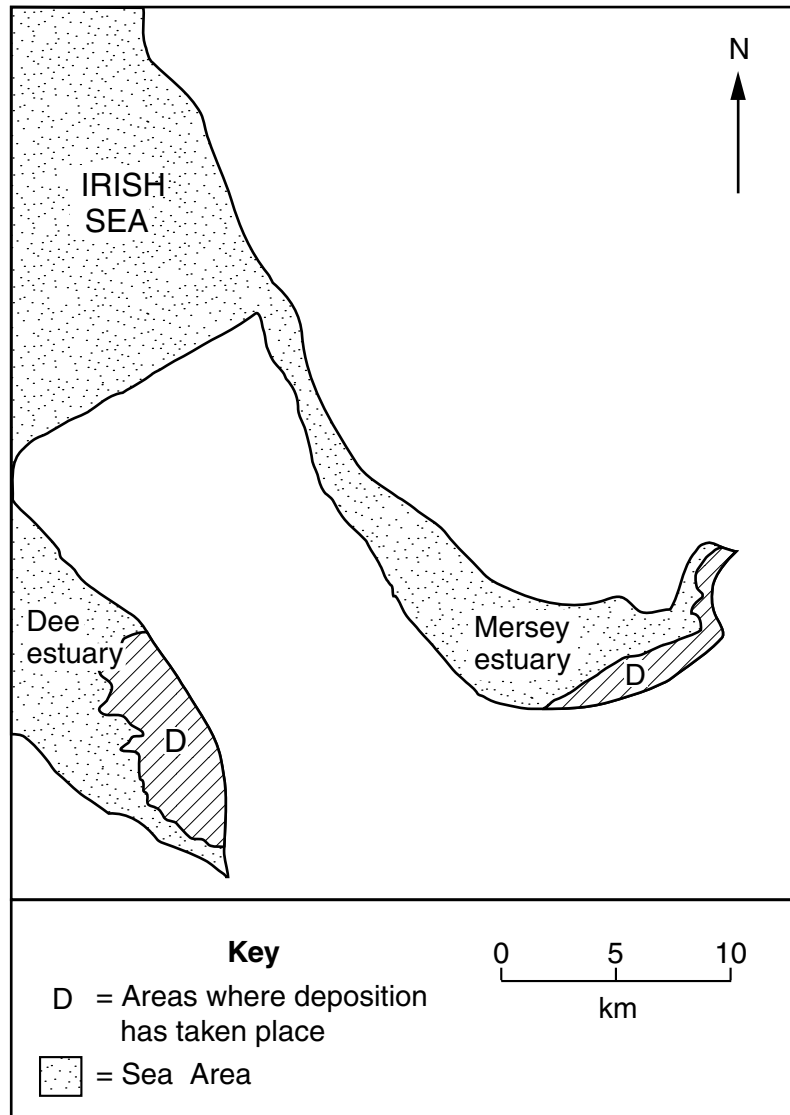
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[2]

- (c) Fig. 1b shows the western half of the area shown by the satellite image (Photograph A).  
A sketch map showing the western half of the area shown by the satellite image (Photograph A)



**Fig. 1b**

- (i) Shade an area where deposition has occurred (use pencil or a colour). [1]
- (ii) Annotate (fully label) Fig. 1b to explain why deposition has occurred in the area which you have shaded for part (c)(i). [2]
- (d) Study Fig. 1c opposite and the OS map extract (1:50 000) of St. Helens and the surrounding area.

**Population and services of five settlements near St. Helens**

The data was collected during a fieldwork visit to the area. All settlements are shown on the OS map extract.

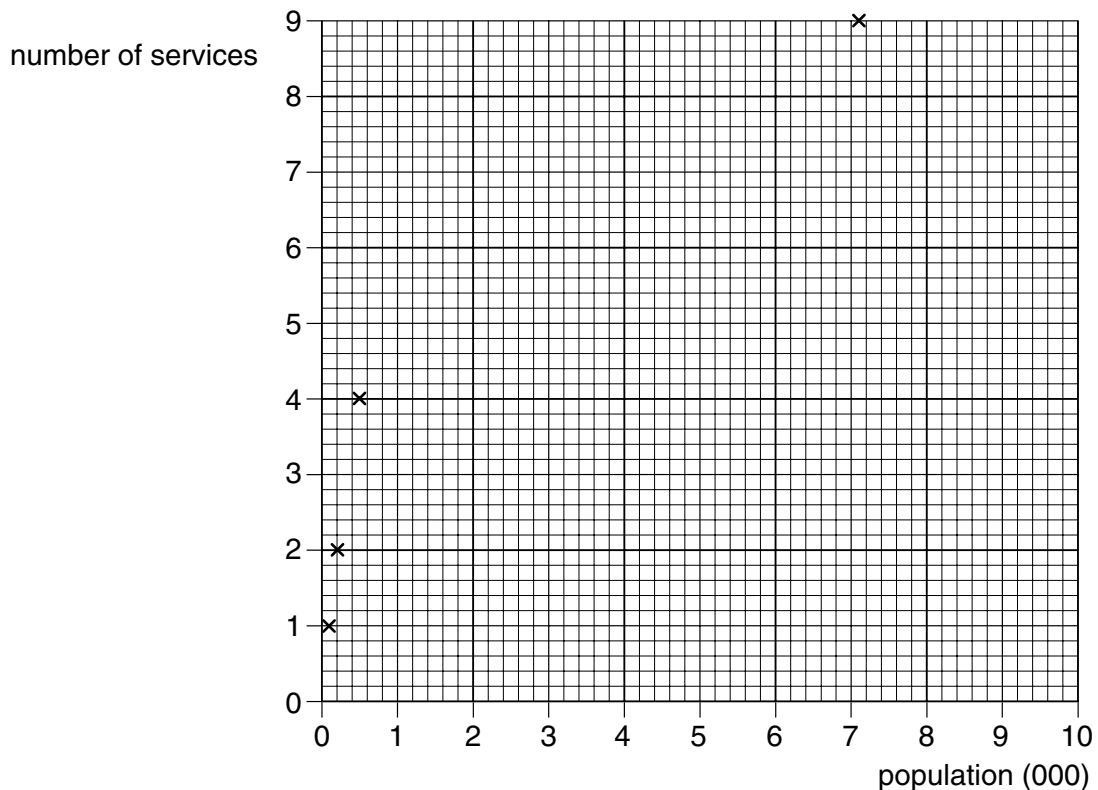
Settlement	Grid Square	Population	Services available in settlement										
			✓	✓	✓	✓	✓	✓	✓	✓	✓		
Billinge	5200	9300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Crank	5099	500	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
Houghwood	5100	50	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Kings Moss	5001	150	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
Rainford	4801	7100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Key**  
 ✓ = Service available  
 ✗ = No service

Post Box  
 Church or Chapel  
 Public House  
 Post Office  
 Primary School  
 Hairdresser  
 Surgery or Health Centre  
 Dentist  
 Secondary School

**Fig. 1c**

- (i) The scatter graph below shows the relationship between the population and the number of services available in the settlements. Use the information in Fig. 1c to plot Billinge on the graph. [1]



- (ii) To what extent is there a relationship between the population of these settlements and the types of services available? You should refer to examples from Fig. 1c in your answer.

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[3]

- (iii) Use evidence from the OS map extract to suggest why Billinge (in and around Grid Square 5200) is larger than Houghwood (Grid Square 5100).

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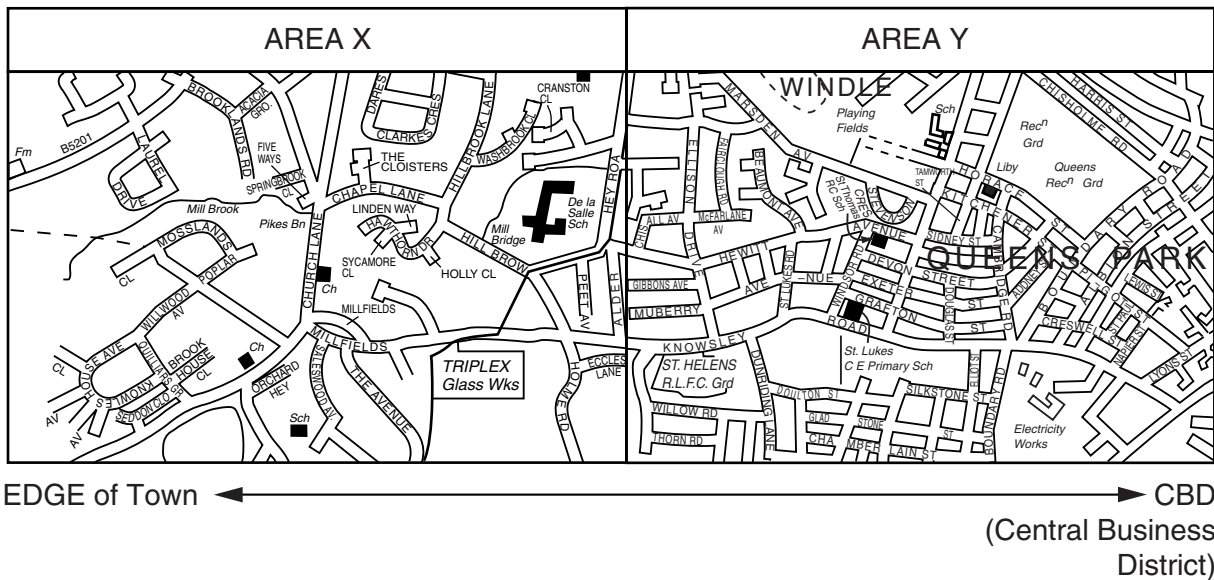


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[2]

(e) Study Fig. 1d.

**Land use in the western part of St. Helens**



Acknowledgement: St. Helens A-Z Street Map published by McMillan Group

**Fig. 1d**

Use evidence from Fig. 1d to describe how the land use changes from close to the CBD (Central Business District) to the edge of the town. You should refer to housing, roads and other land uses.

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[4]

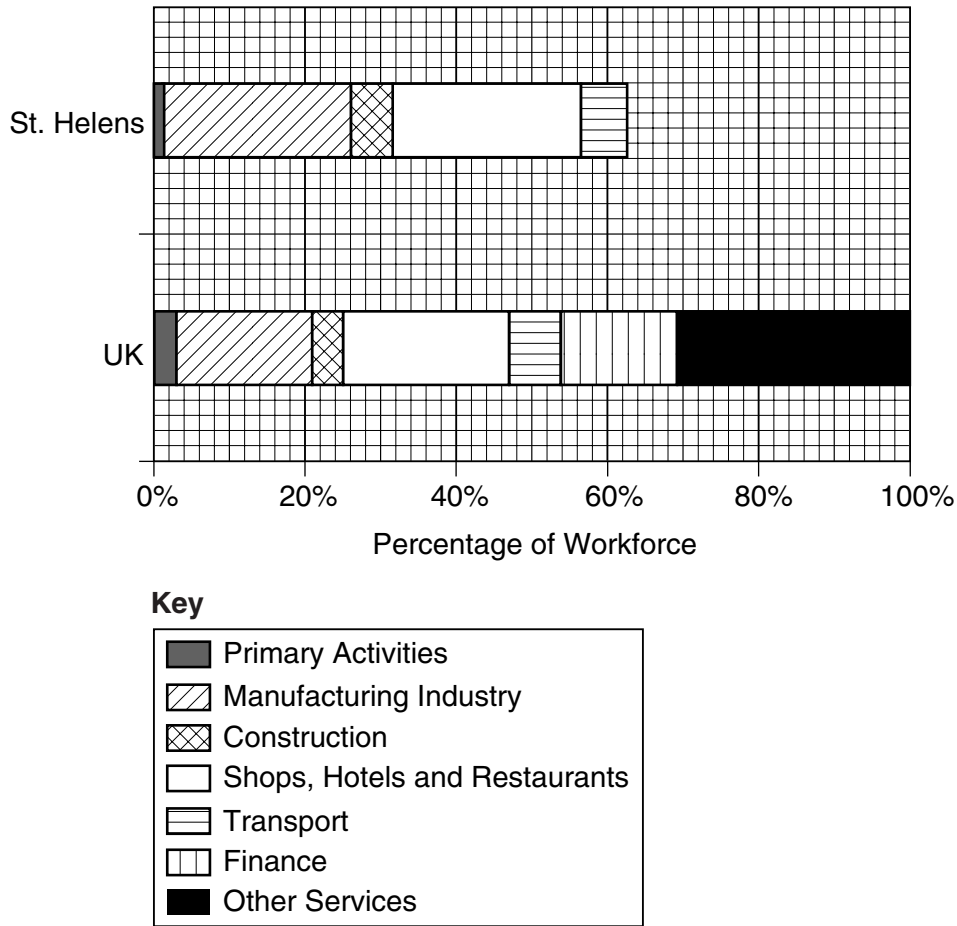
[Total : 20 marks]

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END OF QUESTION 1

2 (a) Study Fig. 2a.

**Employment structure in St. Helens and the UK**



**Fig. 2a**

(i) Complete the graph of St. Helens using the following information:

Percentage of workforce employed in finance	10%	
Percentage of workforce employed in other services	27%	[1]

(ii) Identify a major difference between the employment structure of St. Helens and the UK as a whole.

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[1]



(b) Study Photograph B and the OS map extract.

The factory shown in Photograph B is marked in and around Grid Square 5196.

(i) The photograph was taken above 518971. In which compass direction was the camera pointing?

\_\_\_\_\_ [1]

(ii) What is the 6 figure reference for the school in the foreground of the photograph?

\_\_\_\_\_ [1]

(iii) Use evidence from the OS map extract and photograph to describe the location of the factory.

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 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_ [3]

(c) Study Figs. 2b and 2c.

**The process of glass making (which takes place in the factory shown in Photograph B)**

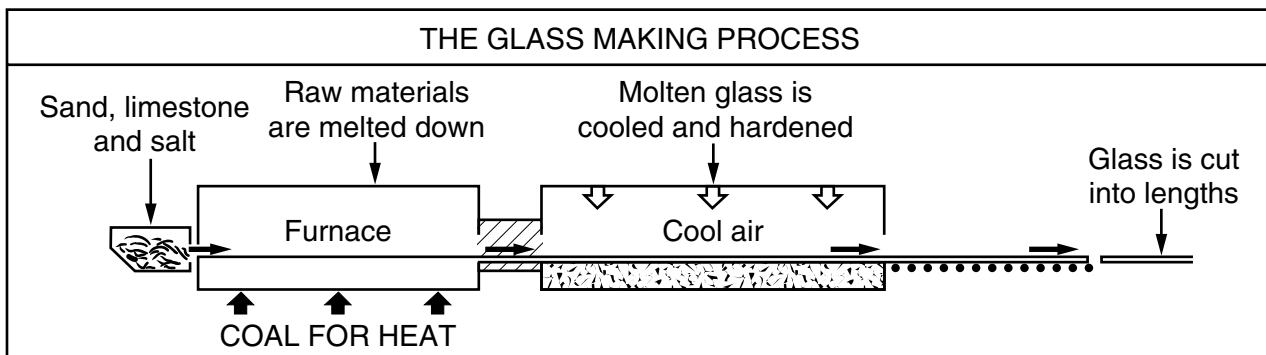
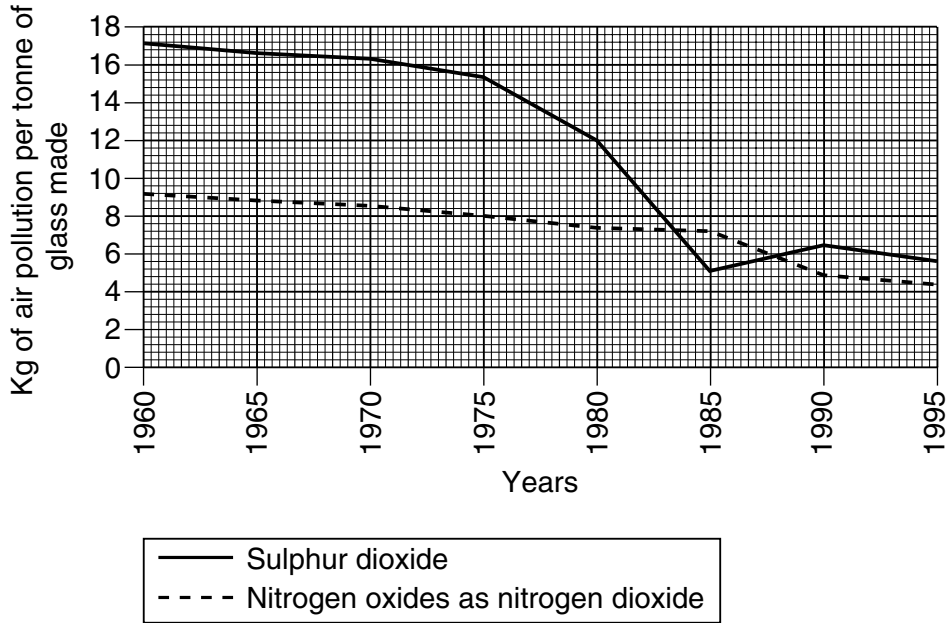


Fig. 2b



(d) Study Fig. 2d.

**Air pollution from the glass making industry in St. Helens**



Acknowledgement: Reprinted with permission from Pilkington plc and St. Helens Council

**Fig. 2d**

(i) Complete Fig. 2d for sulphur dioxide by using the following information: [1]

Year	Kg of air pollution by sulphur dioxide per tonne of glass made
1990	6
1995	5

(ii) Since 1965 the glass making industry has tried to reduce air pollution. Use evidence from Fig. 2d to describe how successful it has been.

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[4]

[Total : 18 marks]

