



**GCE AS
B110U20-1**



FRIDAY, 27 MAY 2022 – MORNING

**GEOGRAPHY – AS component 2
Changing Places**

**1 hour plus your additional time
allowance**

Surname

First name(s)

Centre Number

Candidate Number

2

ADDITIONAL MATERIALS

A calculator.

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in Section A. In Section B, answer EITHER question 3 OR 4 OR 5.

Use black ink, black ball-point pen or your usual method.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces on the previous page.

Write your answers in the spaces provided in this booklet.

(Turn over)

If you run out of space, use the additional page(s) at the end of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question; you are advised to divide your time accordingly.

THIS PAPER REQUIRES THAT YOU MAKE AS FULL USE AS POSSIBLE OF APPROPRIATE EXAMPLES AND REFERENCE TO DATA TO SUPPORT YOUR ANSWERS. SKETCH MAPS AND DIAGRAMS SHOULD BE INCLUDED WHERE RELEVANT.

A plain page is available at the end of each section for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.

(Turn over)

SECTION A: CHANGING PLACES

Answer ALL questions.

Make the fullest possible use of examples and data to support your answers.

**1 (a) (i) Compare the trends shown in
FIGURE 1 opposite. [3 marks]**

(Turn over)

- 1 (a) (ii) Suggest ONE way in which the decline in primary employment in rural areas has affected local people. [3 marks]**

(Turn over)

- 1 (b) Examine the impacts of the continuing decline of some urban places. [10 marks]**

(Turn over)

(Turn over)

(Turn over)

Additional space for question 1(b):

[illegible]

(Turn over)

2 (a) (i) Use FIGURE 2 opposite to identify ways in which Hartlepool Council are planning to regenerate Hartlepool Marina.

[4 marks]

(Turn over)

Refer to FIGURE 3 opposite.

- 2 (a) (ii) Calculate the percentage change in day visitor numbers between 2016 and 2017. Show your working clearly and give your answer to ONE decimal place.**

[3 marks]

(Turn over)

- 2 (b) Outline ONE ongoing challenge in places where regeneration / rebranding is absent OR has failed OR causes overheating. [4 marks]**

(Turn over)

- 2 (c) Discuss the relative significance of the cultural characteristics of your 'home' and 'contrasting' places.**
[13 marks]

(Turn over)

(Turn over)

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Turn over)

(Turn over)

Additional space for question 2(c):

[illegible]

(Turn over)

**SECTION B: FIELDWORK
INVESTIGATION IN PHYSICAL AND
HUMAN GEOGRAPHY**

Answer EITHER question 3 (Changing Places) OR 4 (Coastal Landscapes) OR 5 (Glaciated Landscapes).

(Turn over)

3 CHANGING PLACES

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the impact of gentrification in Redcliffe, an inner-city area in Bristol (FIGURE 4 opposite).

- (a) (i) Suggest ONE geographical research question relating to gentrification. [1 mark]**

(Turn over)

- 3 (a) (ii) Explain how investigating this question could further students' knowledge and understanding of gentrification. [4 marks]**

(Turn over)

- 3 (b) (i) Identify TWO potential risk factors that could impact on an investigation into the gentrification of an inner-city area. [2 marks]**

- 3 (b) (ii) For ONE of the risks identified in 3(b)(i) on the previous page, suggest how it could be reduced. [2 marks]**

- 3 (c) (i) Outline ONE example of primary data that the AS level students could use to investigate the impact of gentrification.**

[2 marks]

(Turn over)

3 (c) (ii) Justify your choice of the example of primary data outlined in 3(c)(i). [3 marks]

(Turn over)

FIGURE 5 opposite is a summary of some secondary data the students obtained on house prices in Redcliffe.

5 (d) (i) Identify the median house price value for 2020. [1 mark]

(Turn over)

- 5 (d) (ii) Calculate the interquartile range (IQR) for the house prices data for 2020. Show your working.**
[3 marks]

(Turn over)

5 (d) (iii) Suggest what the difference in the interquartile ranges for 2010 and 2020 indicates about property price changes in Redcliffe. [2 marks]

(Turn over)

4 COASTAL LANDSCAPES

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the topic of wave characteristics at Whitby, North Yorkshire (FIGURE 6 opposite).

- (a) (i) Suggest ONE geographical research question relating to wave characteristics. [1 mark]**

(Turn over)

- 4 (a) (ii) Explain how investigating this question could further students' knowledge and understanding of wave characteristics. [4 marks]**

(Turn over)

- 4 (b) (i) Identify TWO potential risk factors that could impact on an investigation into wave characteristics. [2 marks]**

(Turn over)

4 (b) (ii) For ONE of the risks identified in 4(b)(i) on page 36, suggest how it could be reduced. [2 marks]

(Turn over)

- 4 (c) (i) Outline ONE example of primary data that the AS level students could use to investigate wave characteristics. [2 marks]**

4 (c) (ii) Justify your choice of the example of primary data outlined in 4(c)(i). [3 marks]

(Turn over)

FIGURE 7 opposite is a summary of some secondary data the students obtained on wave frequencies.

7 (d) (i) Identify the median wave frequency value for December.

[1 mark]

(Turn over)

- 7 (d) (ii) Calculate the interquartile range (IQR) for the wave frequency data for December.
Show your working. [3 marks]**

- 7 (d) (iii) Suggest what the difference in the interquartile ranges for July and December indicates about wave frequencies on this beach.**
[2 marks]

5 GLACIATED LANDSCAPES

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the characteristics of glacial deposits at Levers Water Tarn, Cumbria (FIGURE 8 opposite).

- (a) (i) Suggest ONE geographical research question relating to the characteristics of glacial deposits.**

[1 mark]

(Turn over)

- 5 (a) (ii) Explain how investigating this question could further students' knowledge and understanding of the characteristics of glacial deposits. [4 marks]**

(Turn over)

- 5 (b) (i) Identify TWO potential risk factors that could impact on an investigation into the characteristics of glacial deposits. [2 marks]**

5 (b) (ii) For ONE of the risks identified in 5(b)(i) on the previous page, suggest how it could be reduced. [2 marks]

(Turn over)

- 5 (c) (i) Outline ONE example of primary data that the AS level students could use to investigate the characteristics of glacial deposits. [2 marks]**

(Turn over)

5 (c) (ii) Justify your choice of the example of primary data outlined in 5(c)(i). [3 marks]

(Turn over)

FIGURE 9 opposite is a summary of some secondary data the students obtained on sediment sizes in glacial deposits.

5 (d) (i) Identify the median sediment size for the sample taken from the esker. [1 mark]

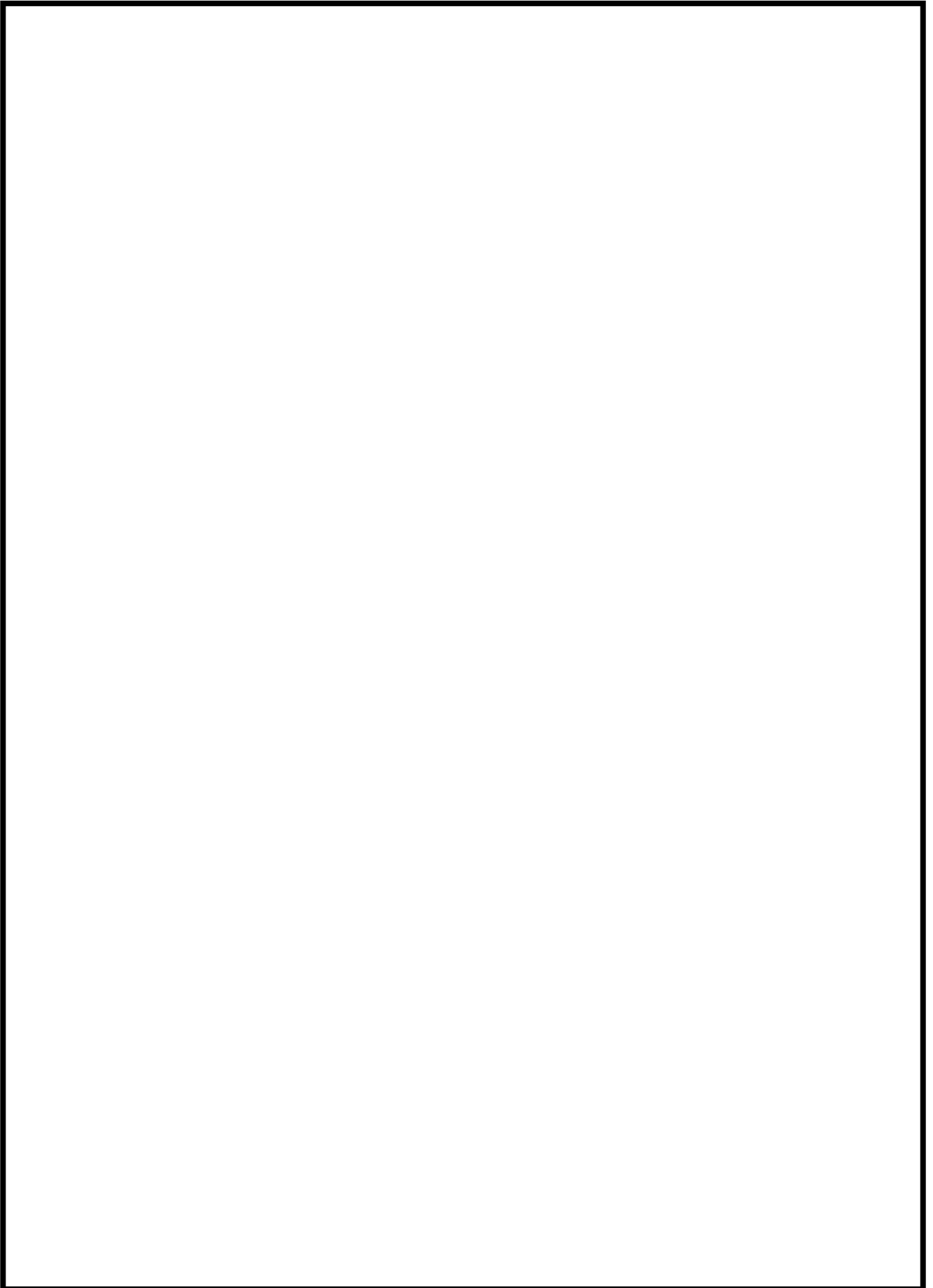
(Turn over)

- 5 (d) (ii) Calculate the interquartile range (IQR) for the sediment size data taken from the esker. Show your working. [3 marks]**

- 5 (d) (iii) Suggest what the difference in the interquartile ranges for the samples taken from the moraine and esker indicates about sediment sizes in these glacial deposits. [2 marks]**

END OF PAPER

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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.

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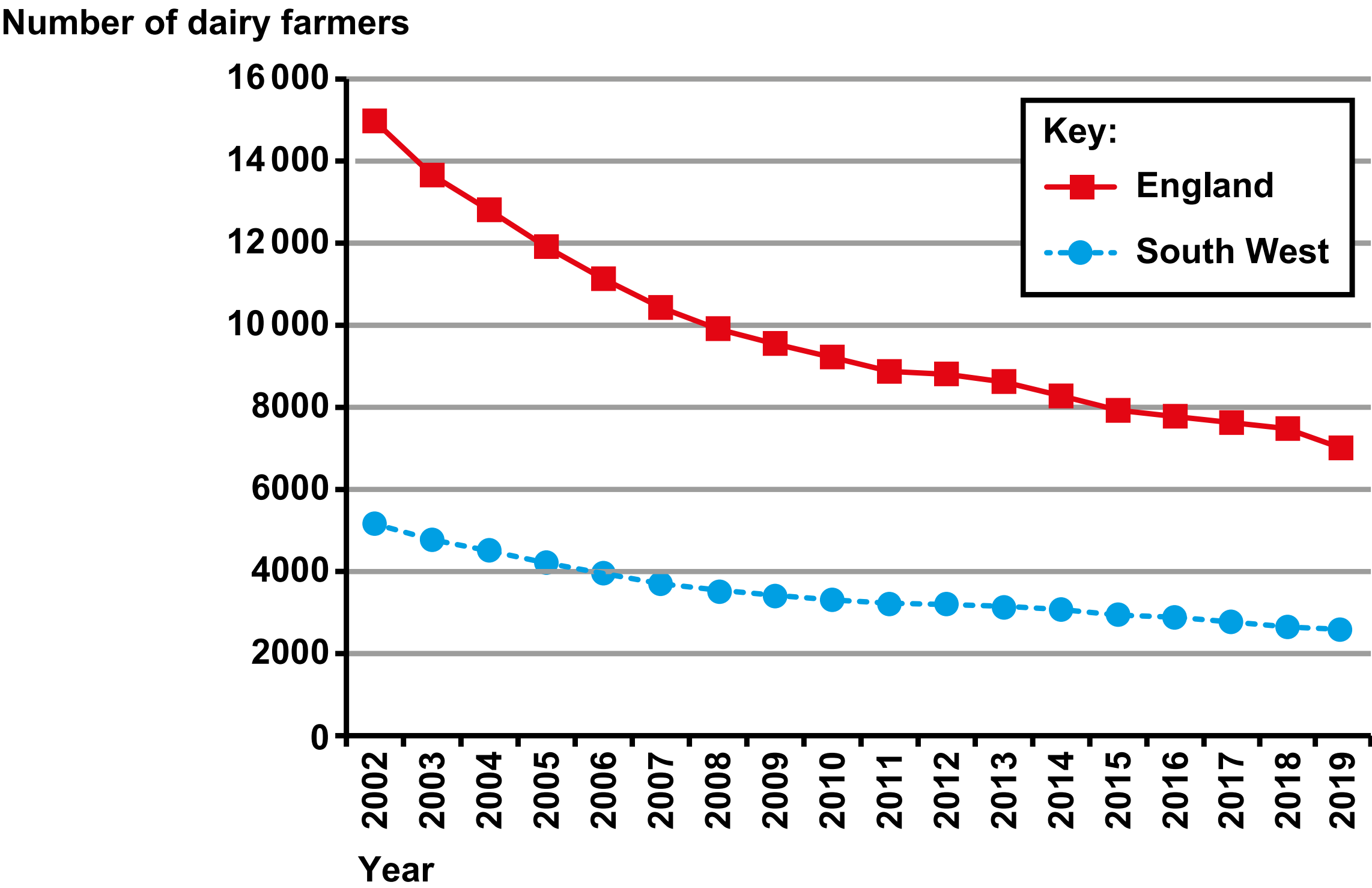
Question number	Additional page, if required. Write the question number(s) in the left-hand margin.

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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1	16	
2	24	
3 or 4 or 5	20	
Total	60	

FIGURE 1: THE NUMBER OF DAIRY FARMERS IN SOUTH WEST ENGLAND AND ENGLAND AS A WHOLE, 2002-2019



Source: <https://www.nfuonline.com/assets/67942>

FIGURE 2: IMAGES OF HARTLEPOOL MARINA BEFORE AND AFTER PROPOSED REGENERATION

FIGURE 2a: HARTLEPOOL MARINA BEFORE PROPOSED REGENERATION



Source: <https://www.hartlepoolmail.co.uk>

FIGURE 2b: ARTIST'S IMPRESSION OF HARTLEPOOL MARINA AFTER PROPOSED REGENERATION



Source: <https://www.hartlepoolmail.co.uk>

FIGURE 3: NUMBER OF DAY VISITORS TO HARTLEPOOL

	2016	2017
Day visitor numbers	3.42 million	3.64 million

Source: <https://www.hartlepool.gov.uk>

FIGURE 4: GENTRIFICATION IN REDCLIFFE, BRISTOL



FIGURE 5: HOUSE PRICES OF A SAMPLE OF TWO-BEDROOM PROPERTIES IN REDCLIFFE, BRISTOL, 2010 AND 2020

PRICES OF TWO-BEDROOM PROPERTIES FOR SALE IN 2010 (£000)	PRICES OF TWO-BEDROOM PROPERTIES FOR SALE IN 2020 (£000)
154	465
135	386
197	440
170	405
128	325
185	250
180	376
125	425
150	180
167	265
200	428
MEDIAN = 167	
IQR = 50 000	

FIGURE 6: BEACH AT WHITBY, NORTH YORKSHIRE



FIGURE 7: WAVE FREQUENCIES ON A BEACH IN JULY AND DECEMBER

WAVES PER MINUTE RECORDED IN JULY	WAVES PER MINUTE RECORDED IN DECEMBER
7	13
8	16
7	15
9	17
6	14
8	19
7	18
10	21
8	15
6	15
5	23
MEDIAN = 7	
IQR = 2	

FIGURE 8: GLACIAL DEPOSITS AT LEVERS WATER TARN, CUMBRIA



FIGURE 9: SEDIMENT SIZES (DIAMETER) IN A SAMPLE TAKEN FROM A TERMINAL MORaine AND AN ESKER

SEDIMENT SIZES OF MATERIAL COLLECTED FROM A TERMINAL MORaine (mm)	SEDIMENT SIZES OF MATERIAL COLLECTED FROM AN ESKER (mm)
7	8
26	6
43	5
121	11
111	15
8	9
112	5
88	7
64	4
58	13
47	8
MEDIAN = 58	
IQR = 85	