

Surname	Centre Number	Candidate Number
First name(s)		2



GCE AS

B110U20-1



S24-B110U20-1



WEDNESDAY, 22 MAY 2024 – MORNING

GEOGRAPHY – AS component 2

CHANGING PLACES

1 hour 15 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	21	
2.	19	
3.	20	
4.	10	
5.	10	
Total	80	

ADDITIONAL MATERIALS

A calculator.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

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 in this booklet. If you run out of space, use the additional page(s) at the back 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.



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Section A: Changing Places

Answer **all** questions.

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

Figure 1: Extract from a brochure outlining 'The Heart of the City': a redevelopment project in central Sheffield, 2022



Source: <https://heartofsheffield.co.uk/updates-and-downloads.html>

1. (a) (i) Use **Figure 1** to suggest ways in which Sheffield City Council are planning to redevelop 'The Heart of the City'. [4]

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Figure 2: Sheffield's employment structure, 2022 (%)

Sector of employment	% employed
Manufacturing	10.71
Private knowledge intensive business services	12.42
Other private sectors	40.83
Public services	
Other sectors	4.94
Total	100

- (ii) Use the data in **Figure 2** to calculate the percentage of employees working in Public services. Show your working. [2]

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- (iii) Suggest why rising affluence is considered an important driver of entertainment expansion in some central areas. [5]

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Additional space for Question 1(b):

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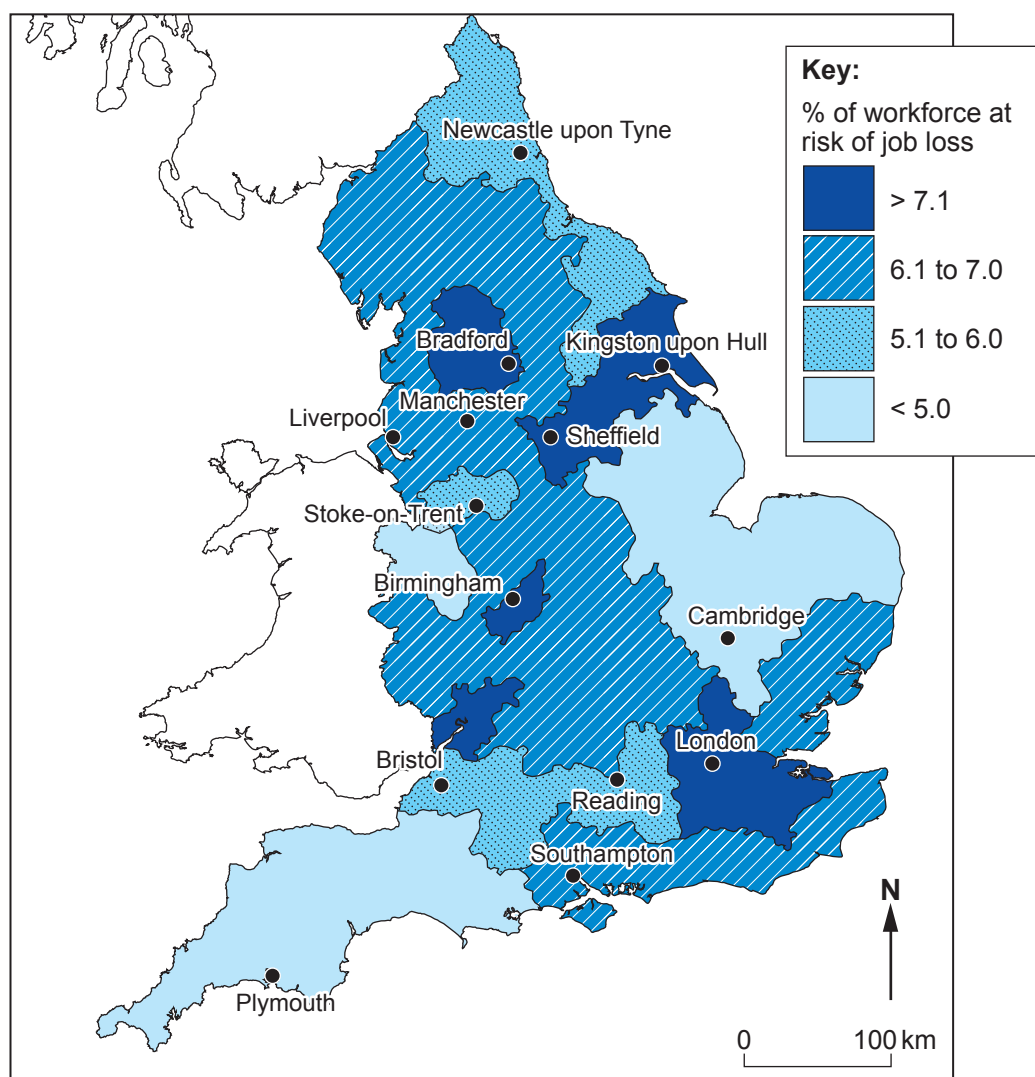
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Figure 3: Risk of job losses in England following the global financial crisis, 2008–2010

Source: https://i.dailymail.co.uk/i/pix/2008/11/17/article-1086527-028088E4000005DC-103_468x722.jpg

2. (a) Use **Figure 3** to describe the pattern shown.

[4]

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(b) Explain how globalisation has led to a decline in primary employment in rural areas. [5]

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Section B: Fieldwork in Physical and Human Geography

Answer **all** questions.

In your answers to Section B you should include evidence from **your** fieldwork investigations in **physical** geography and **human** geography.

A group of AS level Geography students set out to investigate issues surrounding rural change and inequality in rural Northumberland. They wanted to investigate access to healthcare services. The students conducted 36 questionnaires as part of their data collection method.

Figure 4: Extract from students' questionnaire

Q: What was your household's **main** use of healthcare services in the previous 12 months?
Please select **one** answer (only).

Hospital visits relating to a significant illness (for example, diabetes, cancer)

☐

'Alternative' healthcare providers (for example, acupuncturist, chiropractor)

☐

GP appointments

☐

Routine appointments (for example, dental/eye checks/physiotherapy)

☐

The students completed a Chi-square test to analyse their results.

Hypothesis: there is an association between household uptake of healthcare services and main use of healthcare services.

Null hypothesis: there is no significant association between household uptake of healthcare services and main use of healthcare services.

Figure 5: Chi-square data table

	observed	expected	(o-e)	(o-e) ²	(o-e) ² /e
Hospital visits relating to a significant illness	3	9	-6	36	4
'Alternative' healthcare providers	6	9	-3	9	1
GP appointments	16	9
Routine appointments	11	9	2	4	0.44
Total	36	36	n/a	n/a	10.88



3. (a) (i) Calculate the missing values for the 'GP appointments' category and insert them into **Figure 5** giving your answers to **two** decimal places where appropriate. [3]

(ii) Use **Figure 6** to interpret the result of the Chi-square test. [2]

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Figure 6: Critical values of Chi-square test

Significance (confidence level)		
Degrees of freedom	95% (0.05)	99% (0.01)
3	7.82	11.34
4	9.49	13.28
5	11.07	15.09

(iii) Explain why you would **either** accept **or** reject the null hypothesis. [2]

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(iv) Identify an appropriate graphical technique to display the observed data shown in **Figure 5**. [1]

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(v) Justify your choice of graphical technique in 3(a)(iv). [2]

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The students sampled a mother-and-toddler group and a pensioners' lunch club for their questionnaire survey.

- (b) Suggest what impact this sampling strategy might have on the questionnaire results. [5]

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The students were keen to include both qualitative and quantitative data collection methods in their investigation.

- (c) Outline the advantages and disadvantages of qualitative data collection methods. [5]

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Additional space for Question 5:

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