Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
TOTAL	

General Certificate of Education
Advanced Subsidiary Examination
June 2015

Geography GEOG2

Unit 2 Geographical Skills

Friday 15 May 2015 1.30 pm to 2.30 pm

For this paper you must have:
The Ordnance Survey map extract (enclosed)
- a pencil
- a rubber
- a ruler
- a protractor
- compasses.

You may use a calculator.

A

Time allowed
- 1 hour

Instructions
- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information
- The maximum mark for this paper is 50.
- The marks for questions are shown in brackets.
- You will be marked on your ability to:
  – use good English
  – organise information clearly
  – use specialist vocabulary where appropriate.

Advice
- Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.

There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED

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Answer **all** questions in the spaces provided.

1 (a) Study **Figure 1**, on the insert, a 1:50 000 Ordnance Survey map extract of Shrewsbury.

Compare the settlement areas of Bomere Heath (4719) and Belle Vue (4911).

[5 marks]

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1 (b) (i) House price variation between 2009 and 2012 in Bomere Heath and Belle Vue is being investigated. A standard deviation calculation for Bomere Heath house prices has been started in **Figure 2**.

Complete **Figure 2**, and use the formula given to complete the standard deviation calculation. Give the answer to 2 decimal places.

[6 marks]

Figure 2

Road	Average house price in £ thousands (x)	$x - \bar{x}$	$(x - \bar{x})^2$
Back Lane	287	38.25	1463.06
Pool Meadow Close	365	116.25	13514.06
The Common	154	–94.75	8977.56
Pump Road	154	–94.75	8977.56
Bow Way	153	–95.75	9168.06
Fitz	496	247.25	61132.56
Preston Gubbals Road	176	–72.75	5292.56
Windsor Lane	207	–41.75	
Merrington Road	275	26.25	689.06
Green Lane	250		
Yew Tree Bank	225	–23.75	564.06
Cornfield Close	243	–5.75	33.06
	$\sum x$ = 2985		**$\sum(x - \bar{x})^2$ =** 111556.22
	$\bar{x}$ =		

Standard deviation formula $\sigma = \sqrt{\frac{\sum(x - \bar{x})^2}{n}}$

Key

σ = Standard deviation

x = Individual value

$\bar{x}$ = Mean

n = Number in the sample

$\sum$ = Sum of

Complete the standard deviation calculation in the space below, showing your working.

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1 (b) (ii) **Figure 3** shows some comparative data for house prices in Belle Vue between 2009 – 2012.

Using **Figure 3** and the relevant information from **1 (b) (i)**, compare and comment on house price variation between Bomere Heath and Belle Vue.

[6 marks]

Figure 3

Mean (£ thousands)	Range (£ thousands)	Standard deviation (£ thousands)
153.83	186	60.97

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1 (c) (i) **Figure 4a** is a desire line map of part of England and Wales showing the journeys to work for 100 residents of Bomere Heath. **Figure 4b** shows the journeys to work for 100 residents of Belle Vue.

Add the following data to **Figures 4a** and **4b**.

Figure	Journey to work	Number of workers
4a	Shrewsbury (Bomere Heath) to Stafford	4
4b	Shrewsbury (Belle Vue) to Manchester	2

[2 marks]

Figure 4a

Note: 41 out of 100 residents of Bomere Heath work locally in Shrewsbury.

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Figure 4b

Key

0.5 mm (width) = 1 person

Motorways

Settlements

- Over 500 000 inhabitants
- 100 000 – 500 000 inhabitants
- Under 100 000 inhabitants
- Shrewsbury

Note: 69 out of 100 residents of Belle Vue work locally in Shrewsbury.

Question 1 continues on the next page

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1 (c) (ii) Describe and comment on the patterns now shown in **Figures 4a** and **4b**.

[6 marks]

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2 You have experienced geography fieldwork as part of the course. Use this experience to answer the following questions.

State the aim(s) of your fieldwork.

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2 (a) Describe the advantages of your fieldwork location.

[5 marks]

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2 (b) Describe and justify **one** method of primary data collection used in your fieldwork.

[8 marks]

Extra space

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2 (c) With reference to examples from your fieldwork, distinguish between qualitative and quantitative data.

[4 marks]

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2 (d) Describe how you used **one** technique to analyse your data and outline the advantages of this technique.

[8 marks]

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END OF QUESTIONS

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