Please check the examination details below before entering your candidate information

| Candidate surname | Other names |
|---|---|
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Centre Number | Candidate Number

# Pearson Edexcel International Advanced Level

**Time** 1 hour 30 minutes

**Paper reference** **WGE02/01**

# Geography

## International Advanced Subsidiary
## PAPER 2: Geographical Investigations

**You must have:**
Resource Booklet (enclosed)

Total Marks

## Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions in **Sections A** and **B**.
- In **Section C** answer **EITHER Question 4 OR Question 5**.
- Answer the questions in the spaces provided – *there may be more space than you need.*

## Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- Calculators may be used.

## Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

*Turn over*


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## SECTION A

## Crowded Coasts

**Answer ALL questions in this section. Write your answers in the spaces provided.**

**1** Study Figure 1 in the Resource Booklet.

(a) (i) Identify the coastal mass movements labelled A and B.

**(2)**

A .....

B .....

(ii) Explain **one** geological factor that affects coastal mass movement.

**(2)**

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(b) Examine the severity of threats to coastal ecosystems.

**(8)**

**(Total for Question 1 = 12 marks)**

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## Urban Problems, Planning and Regeneration

**2** Study Figure 2 in the Resource Booklet.

(a) (i) Identify **two** pieces of evidence that show this area is being regenerated.

**(2)**

1 .....

2 .....

(ii) Suggest **one** reason why regeneration is needed in areas such as this.

**(2)**

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(b) Assess the importance of sustainability in urban regeneration schemes.

**(8)**

**(Total for Question 2 = 12 marks)**

**TOTAL FOR SECTION A = 24 MARKS**

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## SECTION B

### Compulsory Fieldwork Section

**Answer ALL questions in this section. Write your answers in the spaces provided.**

**3** You have undertaken geography fieldwork as part of the course.

Use this experience to answer Question 3.

State the title or question of your geographical investigation:

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(a) Explain how you managed **one** risk of the fieldwork part of your geographical investigation.

**(2)**

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(b) Explain how you used the **two** technologies below to plan your geographical investigation.

**(4)**

The internet

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GIS (Geographical Information Systems)

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(c) Explain why you collected fieldwork data at a number of different sites and/or times.

**(6)**

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(d) Evaluate the advantages and disadvantages of both the presentation and analysis methods used in your geographical investigation.

**(12)**

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**(Total for Question 3 = 24 marks)**

**TOTAL FOR SECTION B = 24 MARKS**

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## SECTION C

## Geographical Fieldwork and Skills

**Answer ONE question in this section – EITHER Question 4 OR Question 5.**

**Write your answers in the spaces provided.**

**Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.**

**If you answer Question 4 put a cross in the box ☐ .**

### Investigating Crowded Coasts

**4** A group of students studied the diversity of plants in a coastal zone as part of a wider study of coastal ecosystems.

They sampled eight sites in two areas, A and B.

At each site they counted the number of different plants found in a 1 metre square (1 $m^2$) area.

They then used a spreadsheet to calculate both the mean and the median for areas A and B.

Study Figure 3a.

| | Site number and number of different plant species (diversity) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **Mean** | **Median** |
| **Area A** | 6 | 8 | 4 | 22 | 2 | 5 | 6 | 1 | 6.8 | 5.5 |
| **Area B** | 9 | 8 | 10 | 12 | 8 | 7 | 8 | 10 | 9.0 | 8.5 |

**Figure 3a**

**A spreadsheet used to calculate the mean and median results**

(a) Explain **one** advantage of using the median value of plant diversity, rather than the mean value.

**(2)**

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(b) Explain the disadvantages of using social media as a source of secondary information about a coastal resort.

**(3)**

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(c) The students also carried out an activity survey of visitors to a coastal resort.

They classified visitors by age and their preferred type of activity.

Study Figure 3b.

| | **Age category** | | | | | |
|---|---|---|---|---|---|---|
| **Visitors' preferred activities** | <20 | 25–30 | 31–40 | 45–50 | >51 | **Totals** |
| Fishing | 2 | 0 | 1 | 10 | 12 | **25** |
| Jet skiing | 28 | X | 19 | 16 | 2 | **80** |
| Sailing | 1 | 7 | 5 | 0 | 12 | **25** |
| Swimming | 15 | 19 | 6 | 32 | 18 | **90** |
| Surfing | 22 | 28 | 9 | 7 | 14 | **80** |
| **Totals** | **68** | **69** | **40** | **65** | **58** | **300** |

**Figure 3b**

**Results of the activity survey, 21 August 2020**

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(i) Calculate the missing value (X) for jet skiing.

**(1)**

X = .....

(ii) Identify the modal age category for swimming.

**(1)**

| | |
|---|---|
| ☒ | **A** 25–30 |
| ☒ | **B** 31–40 |
| ☒ | **C** 45–50 |
| ☒ | **D** >51 |

(iii) Explain **one** reason why the information in Figure 3b may be unreliable.

**(2)**

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(d) Explain **one** way sample size can affect the reliability of conclusions.

**(3)**

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**(Total for Question 4 = 12 marks)**

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**Investigating Urban Problems, Planning and Regeneration**

**If you answer Question 5 put a cross in the box ☒ .**

**5** A group of students studied the pedestrian flows in a city as part of a wider study of urban regeneration.

They sampled eight sites in two areas, A and B.

At each site they counted the number of people passing a point at every minute.

They then used a spreadsheet to calculate both the mean and the median for areas A and B.

Study Figure 4a.

| | **Site number and number of pedestrians** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **Mean** | **Median** |
| **Area A** | 6 | 8 | 4 | 22 | 2 | 5 | 6 | 1 | 6.8 | 5.5 |
| **Area B** | 9 | 8 | 10 | 12 | 8 | 7 | 8 | 10 | 9.0 | 8.5 |

**Figure 4a**

**A spreadsheet used to calculate mean and median fieldwork results**

(a) Explain **one** advantage of using the median value of pedestrian flow, rather than the mean value.

**(2)**

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(b) Explain the disadvantages of using social media as a source of secondary information about an urban area.

**(3)**

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(c) The students also carried out an activity survey of visitors to the city.

They classified visitors by age and their preferred type of activity.

Study Figure 4b.

| | **Age category** | | | | | |
|---|---|---|---|---|---|---|
| **Visitors' preferred activities** | <20 | 25–30 | 31–40 | 45–50 | >51 | **Totals** |
| Shopping | 2 | 0 | 1 | 10 | 12 | **25** |
| Sightseeing | 28 | X | 19 | 16 | 2 | **80** |
| Eating out | 1 | 7 | 5 | 0 | 12 | **25** |
| Meeting friends | 15 | 19 | 6 | 32 | 18 | **90** |
| Walking | 22 | 28 | 9 | 7 | 14 | **80** |
| **Totals** | **68** | **69** | **40** | **65** | **58** | **300** |

**Figure 4b**

**Results of the activity survey, 21 August 2020**

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(i) Calculate the missing value (X) for sightseeing.

**(1)**

X = .....

(ii) Identify the modal age category for meeting friends.

**(1)**

| | |
|---|---|
| ☒ | **A** 25–30 |
| ☒ | **B** 31–40 |
| ☒ | **C** 45–50 |
| ☒ | **D** >51 |

(iii) Explain **one** reason why the information in Figure 4b may be unreliable.

**(2)**

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.....

(d) Explain **one** way sample size can affect the reliability of conclusions.

**(3)**

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**(Total for Question 5 = 12 marks)**

**TOTAL FOR SECTION C = 12 MARKS**
**TOTAL FOR PAPER = 60 MARKS**

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# Pearson Edexcel International Advanced Level

**Time** 1 hour 30 minutes

**Paper reference** **WGE02/01**

# Geography

## International Advanced Subsidiary
## PAPER 2: Geographical Investigations

**Resource Booklet**

**Do not return this Booklet with the question paper.**

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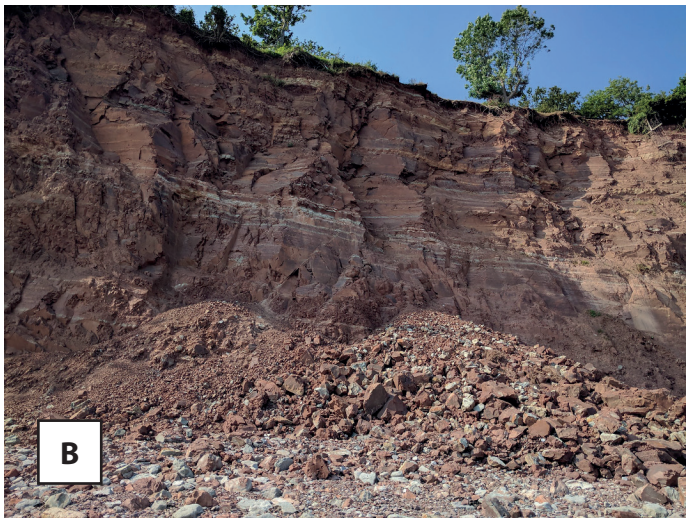
## SECTION A

**This resource relates to Question 1.**

Rate of mass movement 0.01 to 1 metres per second.




Rate of mass movement 10 to 100 metres per second.

**Figure 1**

**Two different types of coastal mass movement**

**This resource relates to Question 2.**

**Figure 2**

**An area of Rotterdam being regenerated**

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**Acknowledgements**

Pearson Education Ltd. gratefully acknowledges all following sources used in preparation of this paper:

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Source 1b © Making Geography Matter / David Holmes

Source 2: © Making Geography Matter / David Holmes