Centre No.						Paper Reference								Surname	Initial(s)
Candidate No.						5	3	8	1	H	/	6	B	Signature	

Paper Reference(s)

5381H/6B

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 6 – Section B (Non-Calculator)

Higher Tier

Unit 1 Test – Data Handling

Thursday 11 June 2009 – Morning

Time for Section B: 20 minutes

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers
Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
This section has 3 questions. The total mark for this section is 15. The total mark for this paper is 30.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section A only.

Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.

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SECTION B

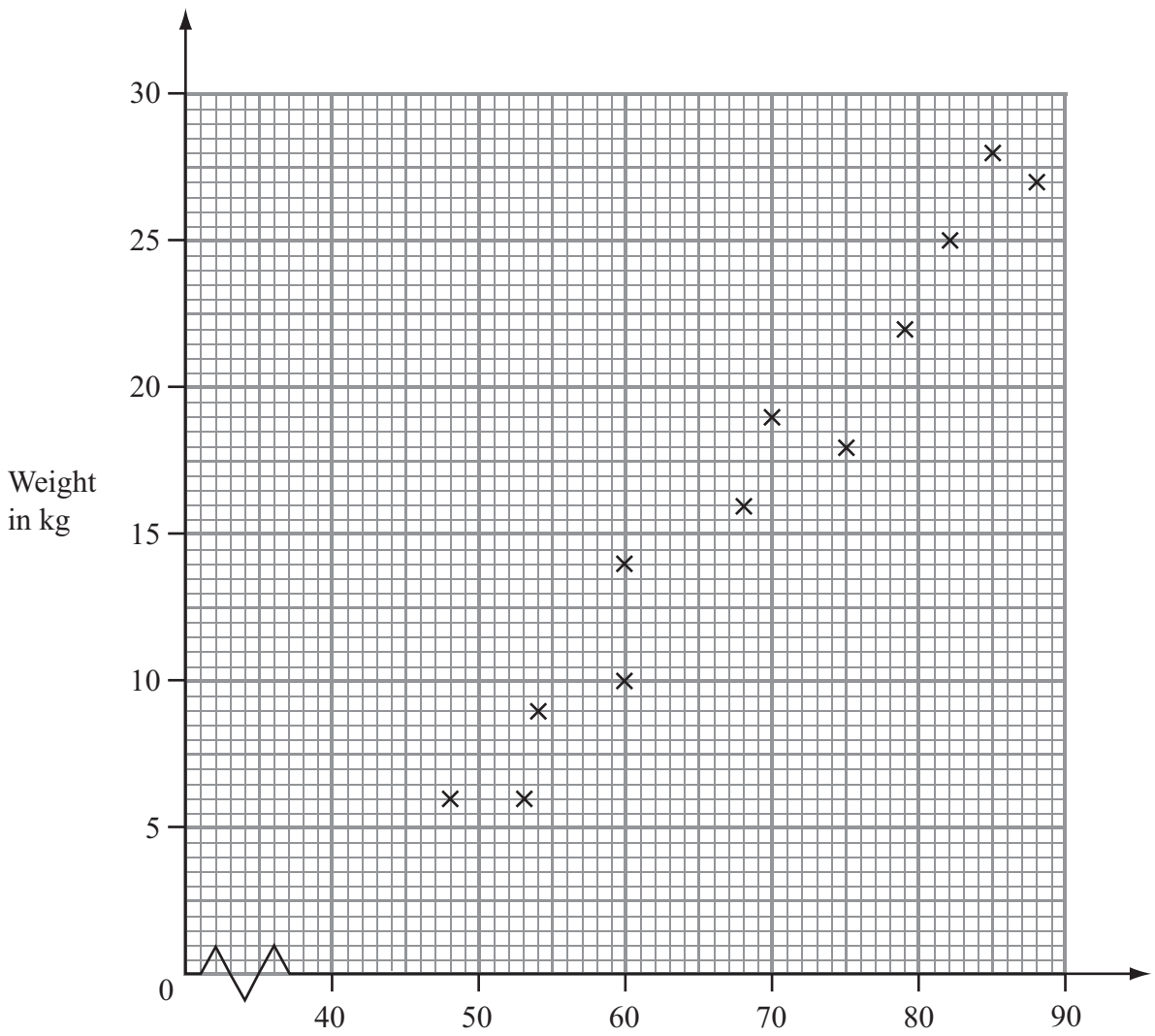
Answer ALL THREE questions.

Write your answers in the spaces provided.

You must NOT use a calculator in this section.

You must write down all stages in your working.

1. Sanji goes fishing for pike.
The scatter graph shows information about the weights and the lengths of some of the pike Sanji caught.



(a) Describe the relationship between the weight and the length of these pike.

.....

(1)

Leave blank

Sanji also caught a pike of weight 24 kg and length 78 cm.

(b) Show this information on the scatter graph.

(1)

A pike has a length of 65 cm.

(c) Estimate the weight of this pike.

..... kg

(2)

Q1

(Total 4 marks)

Leave blank

2. The table gives some information about the area, in km^2, of 30 countries.

Area (n million km^2)	**Frequency**
$0.00 < n \leqslant 0.25$	4
$0.25 < n \leqslant 0.50$	9
$0.50 < n \leqslant 0.75$	4
$0.75 < n \leqslant 1.00$	5
$1.00 < n \leqslant 1.25$	6
$1.25 < n \leqslant 1.50$	1
$1.50 < n \leqslant 1.75$	1

(a) Write down the modal class interval.

.....

(1)

(b) Find the class interval that contains the median.

.....

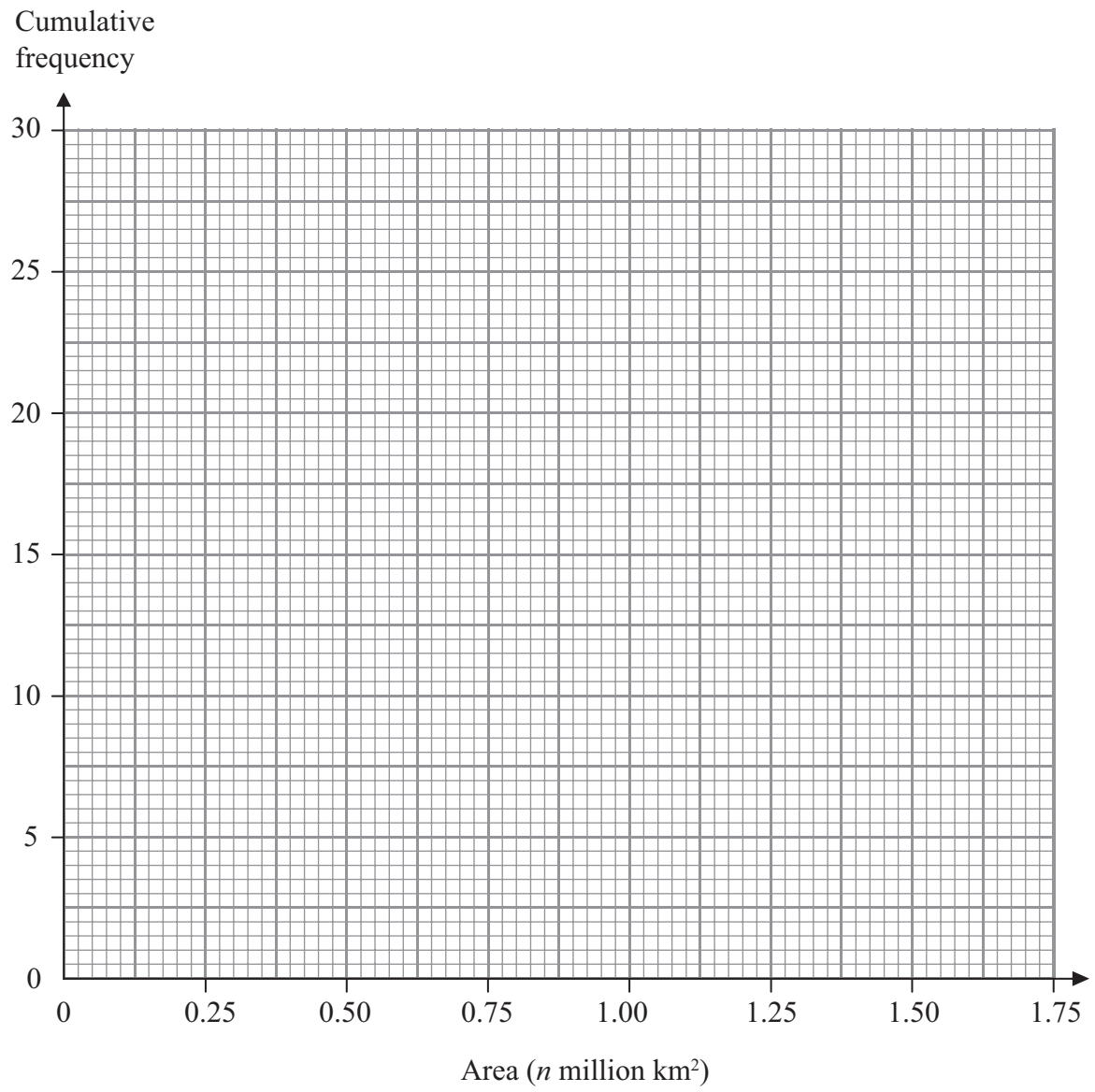
(1)

(c) Complete the cumulative frequency table.

Area (n million km^2)	**Cumulative frequency**
$0.00 < n \leqslant 0.25$	4
$0.00 < n \leqslant 0.50$	
$0.00 < n \leqslant 0.75$	
$0.00 < n \leqslant 1.00$	
$0.00 < n \leqslant 1.25$	
$0.00 < n \leqslant 1.50$	
$0.00 < n \leqslant 1.75$	

(1)

Leave blank



(d) On the grid, draw a cumulative frequency graph for your table.

(2)

(e) Use your graph to find an estimate for the number of these countries with an area greater than 0.90 million km^2.

.....

(2) **Q2**

(Total 7 marks)

Leave blank

3. There are 4 bottles of orange juice,
3 bottles of apple juice,
2 bottles of tomato juice.

Viv takes a bottle at random and drinks the juice.
Then Caroline takes a bottle at random and drinks the juice.

Work out the probability that they both take a bottle of the same type of juice.

.....

Q3

(Total 4 marks)

TOTAL FOR SECTION B: 15 MARKS

TOTAL FOR PAPER: 30 MARKS

END

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