

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

Paper Reference(s)

**5381H/6B**

# Edexcel GCSE

**Mathematics (Modular) – 2381**

Paper 6 – Section B (Non-Calculator)

## Higher Tier

Unit 1 Test – Data Handling

Tuesday 1 March 2011 – Morning

Time for Section B: 20 minutes



Examiner's use only

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Team Leader's use only

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**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 5 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 FIVE 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. Wendy records the number of people in each of 20 buses.

Here are her results.

12	20	32	41	33
43	44	25	37	18
34	23	14	16	36
25	19	45	28	39

Draw an ordered stem and leaf diagram to show Wendy's results.  
You must include a key.


Key:
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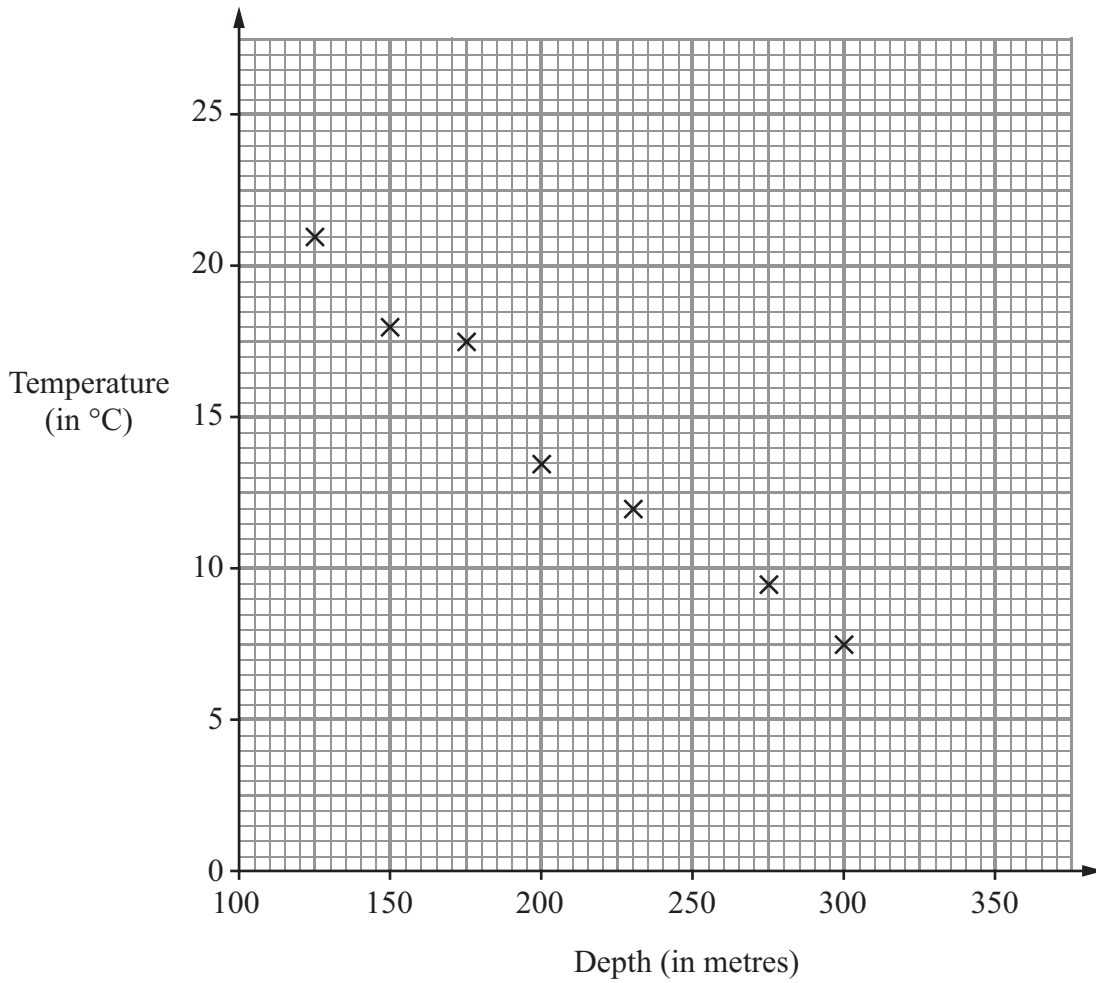
**(Total 3 marks)**

Q1

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2. A scientist recorded the temperature of the sea at each of 7 depths. The scatter graph shows information about these temperatures.



- (a) Describe the relationship between the depth and the temperature of the sea.

.....  
 .....

(1)

- (b) Estimate the temperature of the sea at a depth of 250 metres.

.....°C

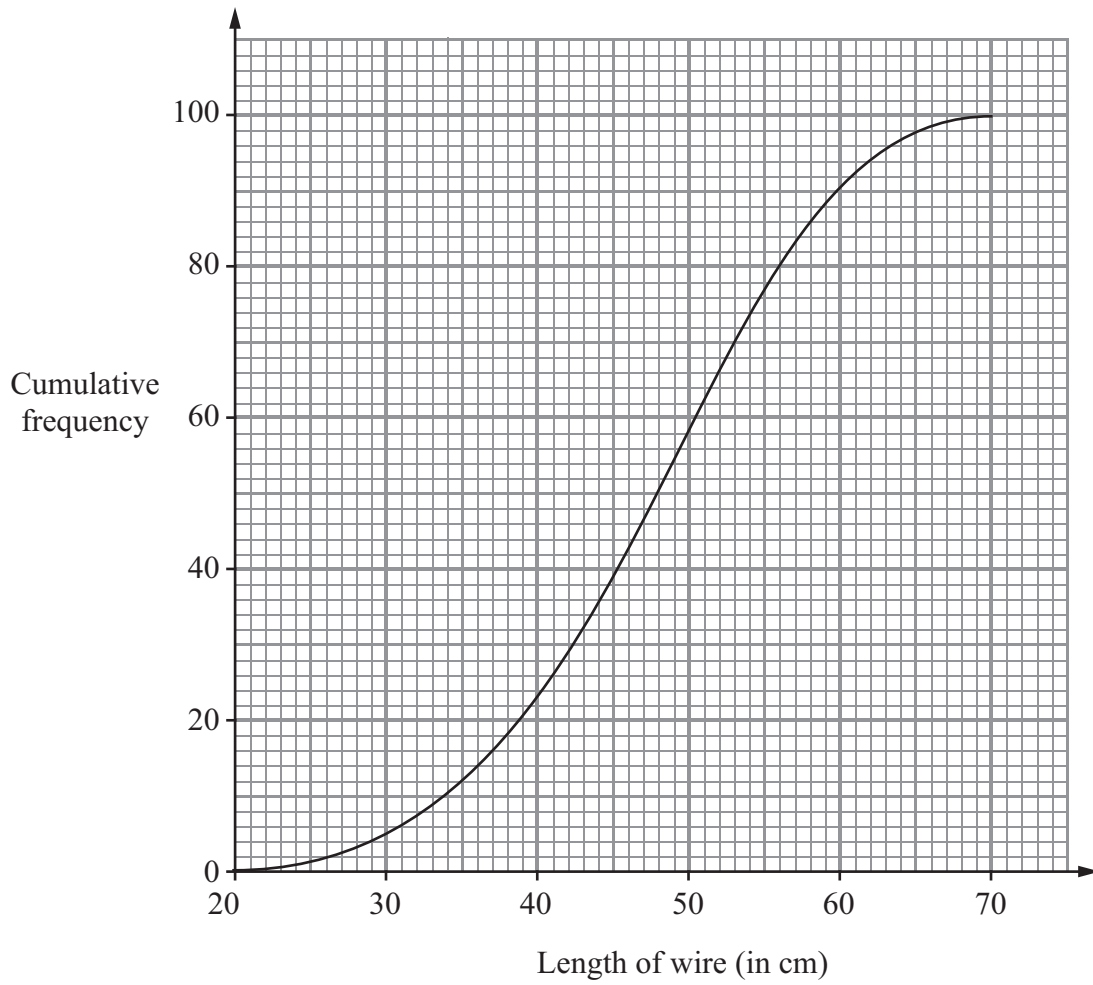
(2)

(Total 3 marks)

Q2



3. The cumulative frequency graph gives information about the lengths of 100 pieces of wire.



Find an estimate for the number of pieces of wire with a length greater than 57 cm.

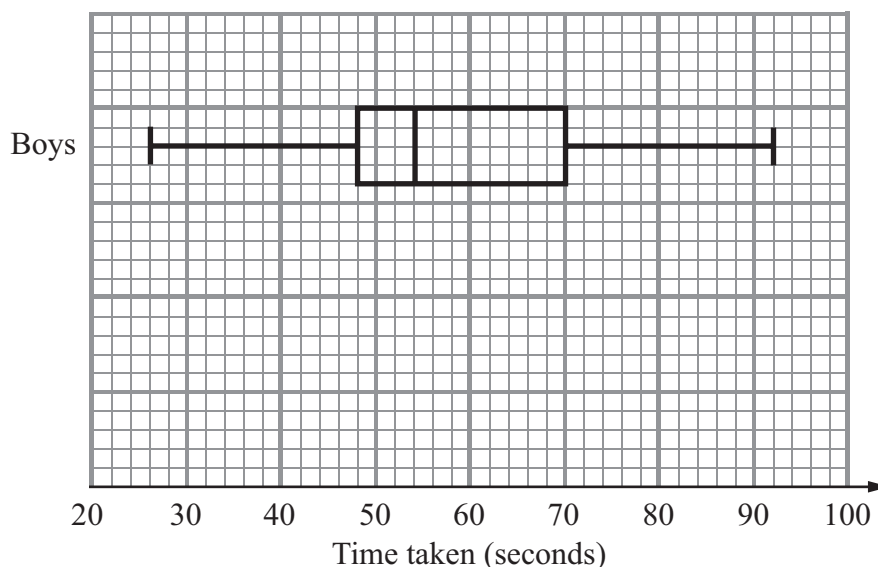
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**(Total 2 marks)**

**Q3**



4. The box plot shows the distribution of the times taken, in seconds, by some boys to complete a task.



The table gives information about the times taken, in seconds, by some girls to complete the same task.

	Seconds
Shortest time	36
Lower quartile	48
Median	58
Upper quartile	80
Longest time	90

- (a) On the grid, draw a box plot to show the information in the table. (2)

- (b) Make two comparisons between the distribution of the times taken by the boys to complete the task and the distribution of the times taken by the girls to complete the same task.

1 .....

.....

2 .....

.....

(2)

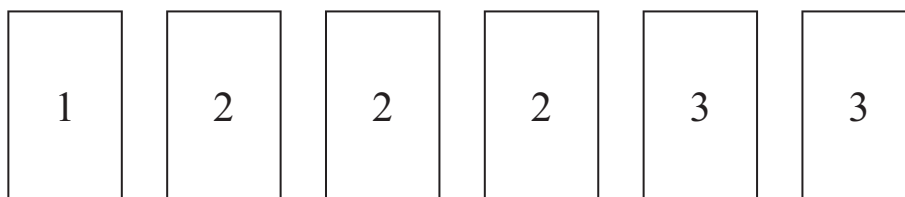
(Total 4 marks)

Q4



5. Henri has six cards.

The six cards are numbered 1, 2, 2, 2, 3 and 3



Henri takes at random two of these cards.

Work out the probability that the total of the numbers on the two cards is an even number.

.....

**(Total 3 marks)**

**Q5**

**TOTAL FOR SECTION B: 15 MARKS  
TOTAL FOR PAPER: 30 MARKS**

**END**



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