

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

Monday 21 June 2010 – Afternoon

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

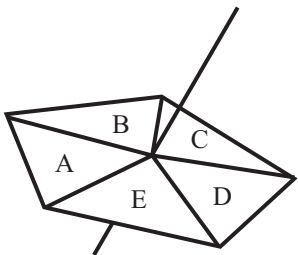
Answer ALL FIVE questions.

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. Here is a five-sided spinner.  
The sides of the spinner are labelled A, B, C, D and E.  
The spinner is biased.



The table shows the probability that the spinner will land on A or B or C or E.

Letter	A	B	C	D	E
Probability	0.25	0.20	0.10		0.30

- (a) Work out the probability that the spinner will land on D.

.....  
(2)

Tania is going to spin the spinner 100 times.

- (b) Work out an estimate for the number of times the spinner will land on A.

.....  
(2)

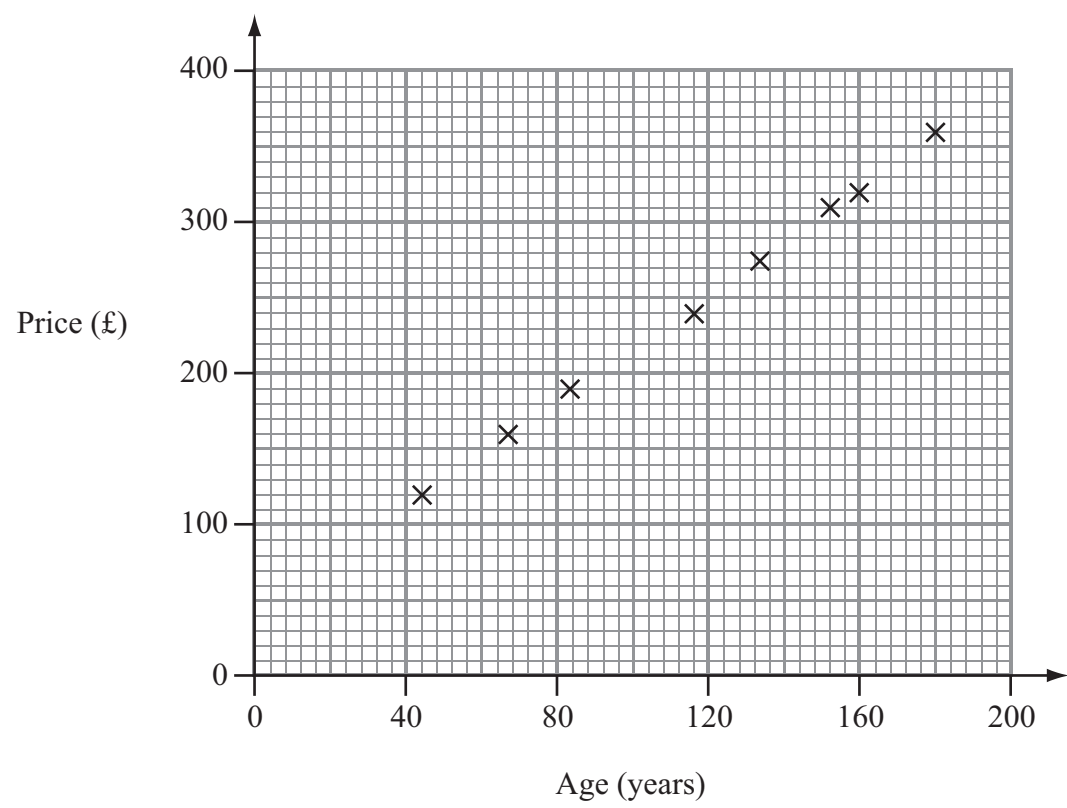
(Total 4 marks)

Q1



Leave  
blank

2. A shop sells old maps.  
The scatter graph shows information about the prices and ages of eight old maps sold at the shop.



- (a) What type of correlation does the scatter graph show?

.....  
(1)

Rob wants to buy an old map from this shop.  
The map is 100 years old.

- (b) Find an estimate for the price of this old map.

£ .....  
(1)

(Total 2 marks)

Q2



3. Rodrigo wants to collect information about the lengths of time people take eating their breakfast.  
  
Design a suitable question he could use on a questionnaire.  
You must include some response boxes.

Q3

(Total 2 marks)

4. The table shows information about the weights of 60 fish in a pond.

Weight ( $w$ kg)	Frequency
$0 < w \leq 0.5$	5
$0.5 < w \leq 1$	12
$1 < w \leq 1.5$	23
$1.5 < w \leq 2$	16
$2 < w \leq 2.5$	4

(a) Complete the cumulative frequency table for this information.

Weight ( $w$ kg)	Cumulative frequency
$0 < w \leq 0.5$	5
$0 < w \leq 1$	
$0 < w \leq 1.5$	
$0 < w \leq 2$	
$0 < w \leq 2.5$	

(1)





<div data-bbox="457 587 1501 1587"></div> <div data-bbox="493 1611 1575 1691"><p>(b) On the grid, draw a cumulative frequency graph for your table. (2)</p></div> <div data-bbox="493 1715 1249 1765"><p>(c) Use your graph to find an estimate for the median weight.</p></div> <div data-bbox="1344 1855 1575 2000"><p>..... kg (1) (Total 4 marks)</p></div>	<div data-bbox="1627 528 1690 587">Leave blank</div> <div data-bbox="1614 1893 1659 1935">Q4</div> <div data-bbox="1614 1935 1659 2000"><input type="text"/></div>



N 3 6 8 0 8 A 0 5 0 8



<p>5. There are seven counters in a bag. 5 counters are red. 2 counters are blue.</p> <p>Toni takes at random a counter from the bag. She does <b>not</b> put the counter back in the bag. Toni then takes at random another counter from the bag.</p> <p>Work out the probability that Toni takes two counters of the same colour.</p>	Leave blank
<p style="text-align: right;">..... (Total 3 marks)</p> <p style="text-align: center;"><b>TOTAL FOR SECTION B: 15 MARKS</b> <b>TOTAL FOR PAPER: 30 MARKS</b></p> <p style="text-align: center;"><b>END</b></p>	<p style="text-align: center;"><b>Q5</b></p> <div></div>



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