

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 15 November 2010 – 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 write down all stages in your working.

You must NOT use a calculator in this section.

1. Debbie wants to find out how much money people spend at the supermarket.

She uses this question on a questionnaire.

How much money do you spend at the supermarket?		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A lot	Quite a lot	Not very much

- (a) Write down **two** things wrong with this question.

1

.....

2

.....

(2)

- (b) Design a better question for Debbie to use on her questionnaire to find out how much money people spend at the supermarket.
You must include some response boxes.

(2)

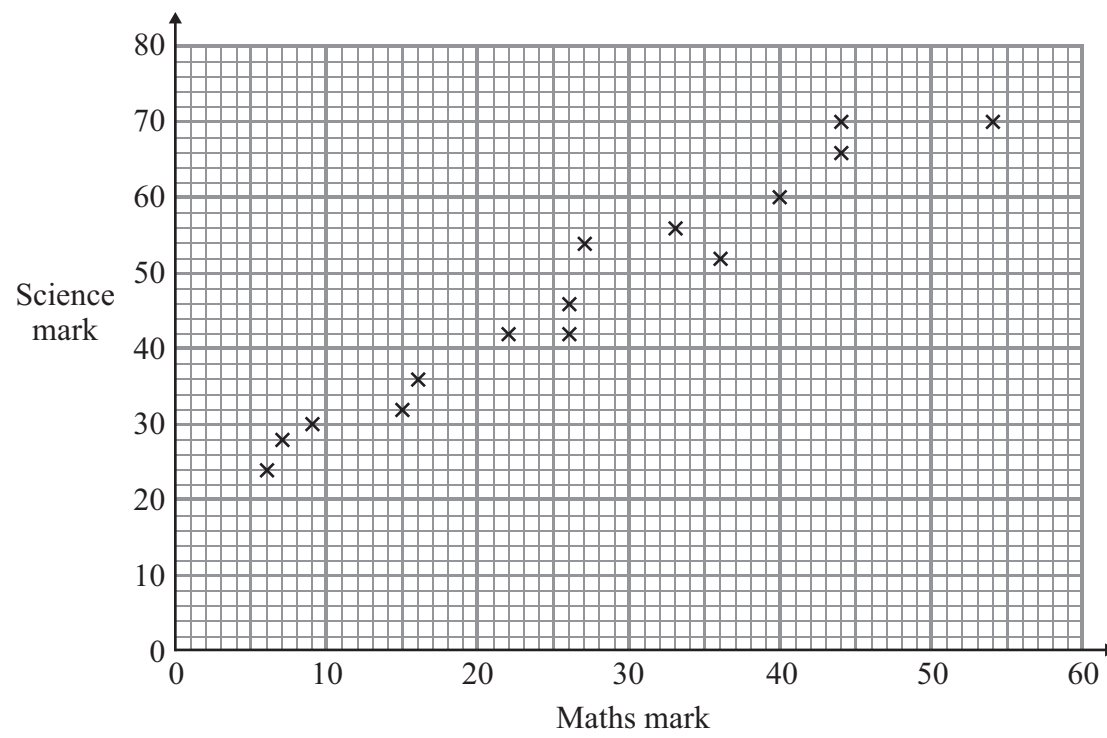
Q1

(Total 4 marks)



Leave blank

2. 15 students did a Maths test and a Science test.
The scatter graph shows some information about their marks.



- (a) Describe the relationship between the Maths marks and the Science marks.

.....
.....
(1)

- (b) Draw a line of best fit on the scatter graph.

(1)

Pierre's Maths mark is 18

- (c) Use your line of best fit to find an estimate for Pierre's Science mark.

.....
(1)

(Total 3 marks)

Q2



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3. The table shows the number of cakes sold in a café each week for five weeks.

Week 1	Week 2	Week 3	Week 4	Week 5
38	33	40	53	62

Work out the **two** 4-week moving averages for this information.

..... ,

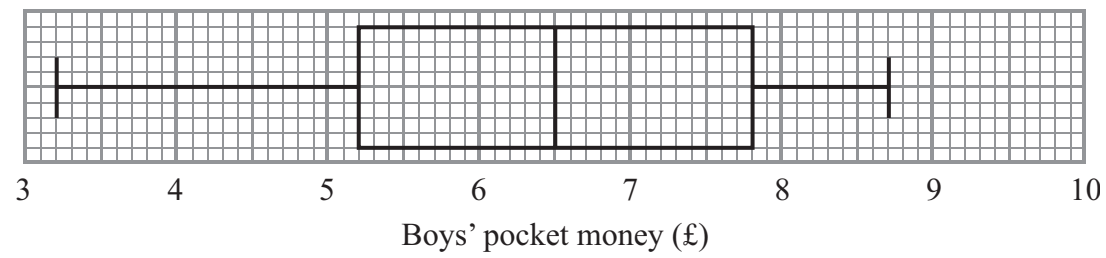
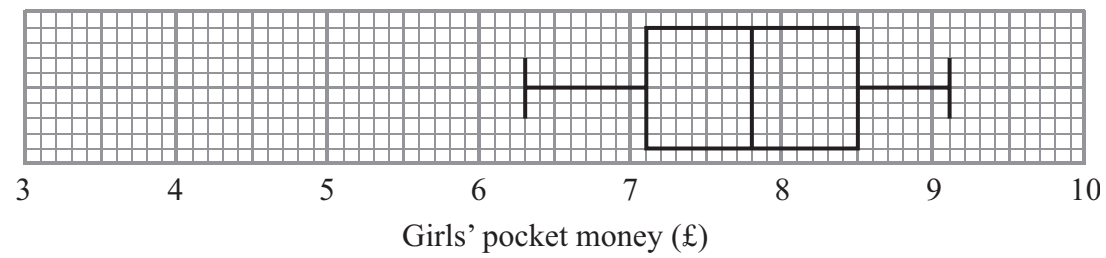
Q3

(Total 2 marks)



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4. The box plots below show information about the pocket money of the girls and the boys in Serge's class.



Make **two** comparisons between the distribution of the girls' pocket money and the distribution of the boys' pocket money.

- 1
-
- 2
-

(Total 2 marks)

Q4



Leave
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5. There are 11 small jars on a table.

3 of the jars contain honey.

8 of the jars contain jam.

Rosie takes, at random, two of the jars for her breakfast.

Work out the probability that she takes at least **one** jar of honey.

.....
Q5

(Total 4 marks)

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

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