

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

Paper Reference(s)

5381H/6A

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 6 – Section A (Calculator)

Higher Tier

Unit 1 Test – Data Handling

Monday 21 June 2010 – Afternoon

Time for Section A: 20 minutes



Examiner's use only

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Team Leader's use only

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Section	Leave Blank
A	
B	

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. 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 6 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.

If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

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 A

Answer ALL SIX questions.

Write your answers in the spaces provided.

You may use a calculator in this section.

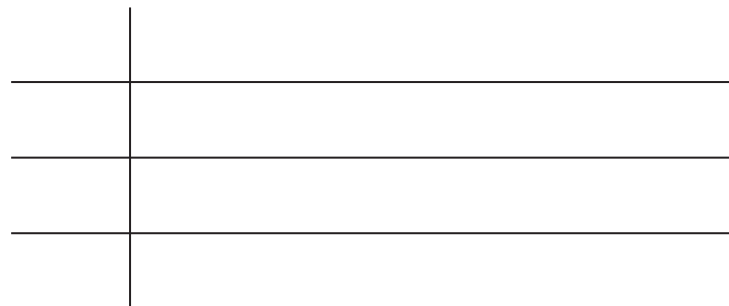
You must write down all stages in your working.

1. A gardener recorded the number of flower buds on each of 15 plants.

Here are her results.

11	36	23	28	18
36	40	31	13	26
25	41	36	22	19

- (a) Draw an ordered stem and leaf diagram for this information.
You must include a key.



Key:

(3)

- (b) Write down the mode.

.....
(1)

Q1

(Total 4 marks)



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2. There are 40 caravans in a holiday park.
The table gives information about the number of people in each caravan.

Number of people	Frequency
1	8
2	11
3	9
4	7
5	5

Work out the mean number of people in each caravan.

.....
(Total 3 marks)

Q2

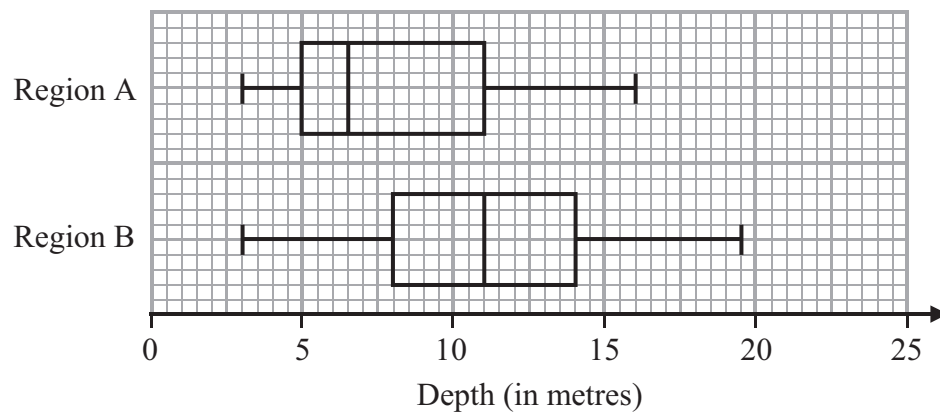
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3. The box plots show information about the depths of the craters in two regions of the moon.



Compare the distributions of the depths of the craters in region A and the depths of the craters in region B.

- 1
-
- 2
-

(Total 2 marks)

Q3

4. The table shows the number of vacuum cleaners sold by a shop in each of the first five months of 2010

Month	January	February	March	April	May
Number of vacuum cleaners sold	23	35	41	53	29

Work out the 3-month moving averages for this information. The first one has been done for you.

33,,

(Total 2 marks)

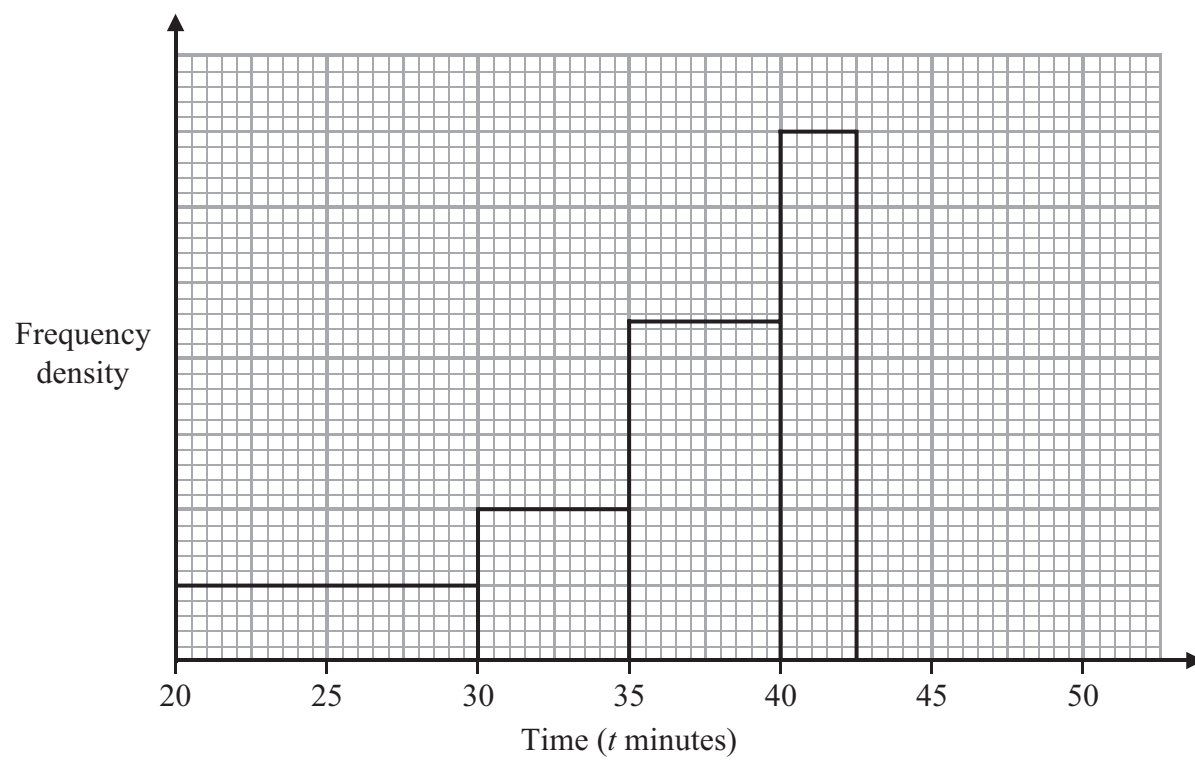
Q4



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5. The incomplete table and histogram show information about the time it took some people to travel to work.

Time (t minutes)	Frequency
$20 < t \leq 30$	20
$30 < t \leq 35$	
$35 < t \leq 40$	45
$40 < t \leq 42.5$	
$42.5 < t \leq 45$	25
$45 < t \leq 50$	35



- (a) Use the information in the histogram to complete the table. (1)
- (b) Use the information in the table to complete the histogram. (1)
- (Total 2 marks)

Q5

5

Turn over



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blank

6. The table gives some information about 290 students.

Height (h cm)	Male	Female
$140 \leq h < 150$	37	56
$150 \leq h < 160$	39	49
$160 \leq h < 170$	45	33
$170 \leq h < 180$	18	13

Toby wants to do a survey of 50 of the students.
He uses a sample stratified by height and gender.

Work out the number of female students with a height less than 150 cm that he should have in his sample.

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Q6

(Total 2 marks)

TOTAL FOR SECTION A: 15 MARKS

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