

Centre No.						Paper Reference (complete below)						Surname	Initial(s)		
Candidate No.						5				H	/		A	Signature	

Paper Reference(s)

5542H/9A 5381H/6A

Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 9 – Section A (Calculator)

Unit 2 Test – Data Handling

Mathematics (Modular) – 2381

Paper 6 – Section A (Calculator)

Unit 1 Test – Data Handling

Higher Tier

Thursday 12 June 2008 – Morning

Time for Section A: 20 minutes

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

Examiner's use only

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Team Leader's use only

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Section	Leave Blank
A	
B	



Instructions to Candidates

In the boxes above, write your centre number, candidate number, the paper reference, your surname, initials and signature. The paper reference is shown above. If more than one paper reference is shown, you should write the reference of the paper for which you have been entered. 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. If your calculator does not have a  $\pi$  button, take the value of  $\pi$  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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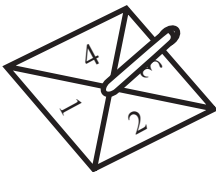
SECTION A

Answer ALL FIVE questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. Marco has a 4-sided spinner.  
The sides of the spinner are numbered 1, 2, 3 and 4  
The spinner is biased.



The table shows the probability that the spinner will land on each of the numbers 1, 2 and 3

Number	1	2	3	4
Probability	0.20	0.35	0.20	

- (a) Work out the probability that the spinner will land on the number 4

.....  
(2)

Marco spins the spinner 100 times.

- (b) Work out an estimate for the number of times the spinner will land on the number 2

.....  
(2)

(Total 4 marks)

Q1



<p>2. Valerie is the manager of a supermarket.</p> <p>She wants to find out how often people shop at her supermarket. She will use a questionnaire.</p> <p>Design a suitable question for Valerie to use on her questionnaire. You must include some response boxes.</p>	Leave blank
<p>(Total 2 marks)</p>	<p>Q2</p> <div></div>



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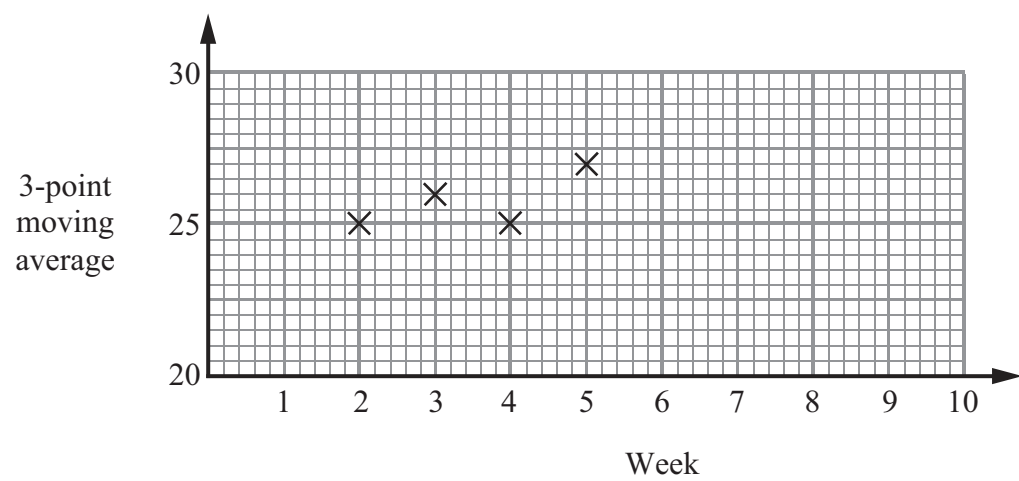
3. The table shows the number of pupils at a dance class each week for 10 weeks. The table also shows seven of the 3-point moving averages.

Week	1	2	3	4	5	6	7	8	9	10
Number of Pupils	23	25	27	26	22	33	23	25	30	29
3-point moving average		25	26	25	27	26	27	26		

- (a) Work out the missing 3-point moving average.  
Write your answer in the table.

(2)

- (b) On the grid, plot the 3-point moving averages from the table.  
The first four have been plotted for you.



(1)

- (c) On the grid, draw a trend line.

(1)

- (d) Comment on the trend shown by your graph.

.....  
.....

(1)

Q3

(Total 5 marks)





4. The two-way table shows information about the number of students in a school.

	Year Group					Total
	7	8	9	10	11	
Boys	126	142	140	135	127	670
Girls	134	140	167	125	149	715
Total	260	282	307	260	276	1385

Robert carries out a survey of these students.  
He uses a sample of 50 students stratified by gender and by year group.

Calculate the number of girls from year 9 that are in his sample.

Leave blank

Q4

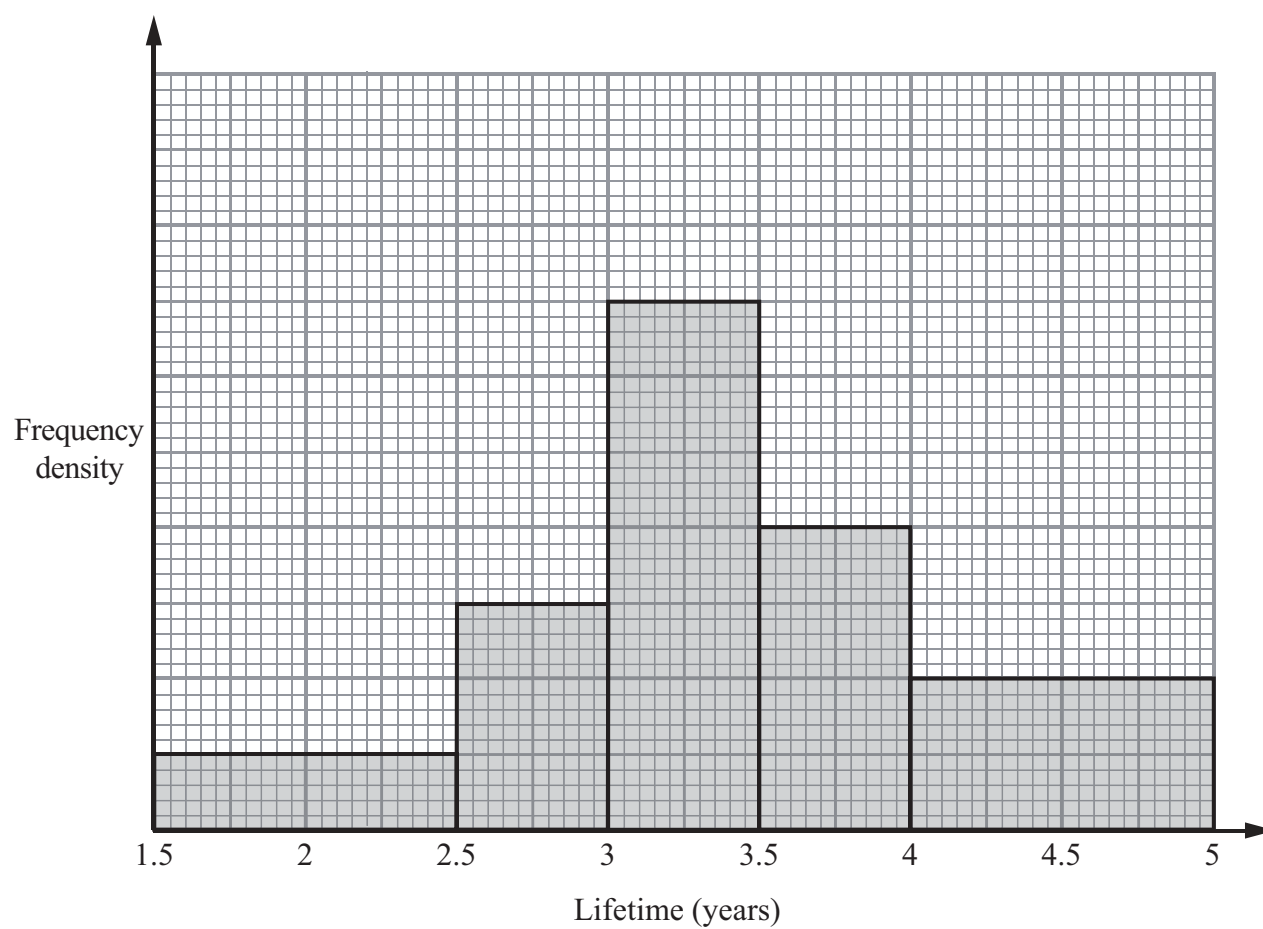
(Total 2 marks)



N 3 1 4 4 0 A 0 5 0 8



5. The histogram shows information about the lifetime of some batteries.



Two of the batteries had a lifetime of between 1.5 and 2.5 years.  
Find the total number of batteries.

Leave blank

Q5

(Total 2 marks)

TOTAL FOR SECTION A: 15 MARKS

END



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