Paper Reference

5 3 8 1 F / 5 A

Paper Reference(s)

5381F/5A

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 5 – Section A (Calculator)

Foundation Tier

Unit 1 Test – Data Handling

Tuesday 1 March 2011 – 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

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.

Turn over

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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. The pictogram shows information about the numbers of cars in a car park on 5 days last week.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key: means 20 cars

(a) Write down the number of cars in the car park on Friday.

....
(1)

(b) Estimate the number of cars in the car park on Thursday.

....
(1)

(Total 2 marks)

Q1

2. Here is a list of words.

| impossible | unlikely | even | likely | certain |

Write down the word from the list to **best** describe the probability

(a) that Emma will get a head when she spins an ordinary coin,

....
(1)

(b) that David will get an 8 when he rolls an ordinary six-sided dice.

....
(1) Q2

(Total 2 marks)

3. The table gives some information about 7 families and their holidays.

Name of family	Number of people in family	Country of holiday	Number of days of holiday	Type of accommodation
Brown	4	France	14	Hotel
Drake	4	Spain	21	Chalet
Adams	5	Austria	10	Tent
Mendez	3	France	7	Hotel
Singh	6	Italy	10	Hotel
Hale	5	France	14	Chalet
Clark	5	Germany	7	Tent

(a) Which families had a holiday for exactly 10 days?

....
(1)

Some of the families went to France and stayed in a hotel.

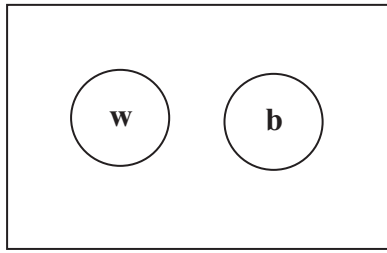(b) Which of these families had the greater number of people in the family?

....
(1) Q3

(Total 2 marks)

P 3 8 6 8 5 A 0 3 0 8
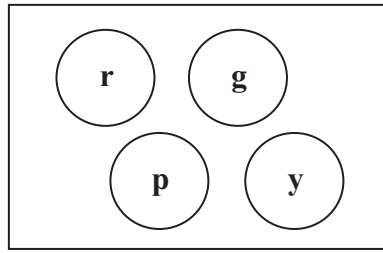
4. Fiona has two boxes, Box A and Box B.

Box A   **Box B**

In Box A there are 1 white counter and 1 black counter.
In Box B there are 1 red counter, 1 green counter, 1 pink counter and 1 yellow counter.

Fiona takes at random a counter from Box A and a counter from Box B.

(a) Write down all the possible combinations that she can take.

....

....

....

....

(2)

(b) Find the probability that Fiona takes a white counter from Box A and a red counter from Box B.

....
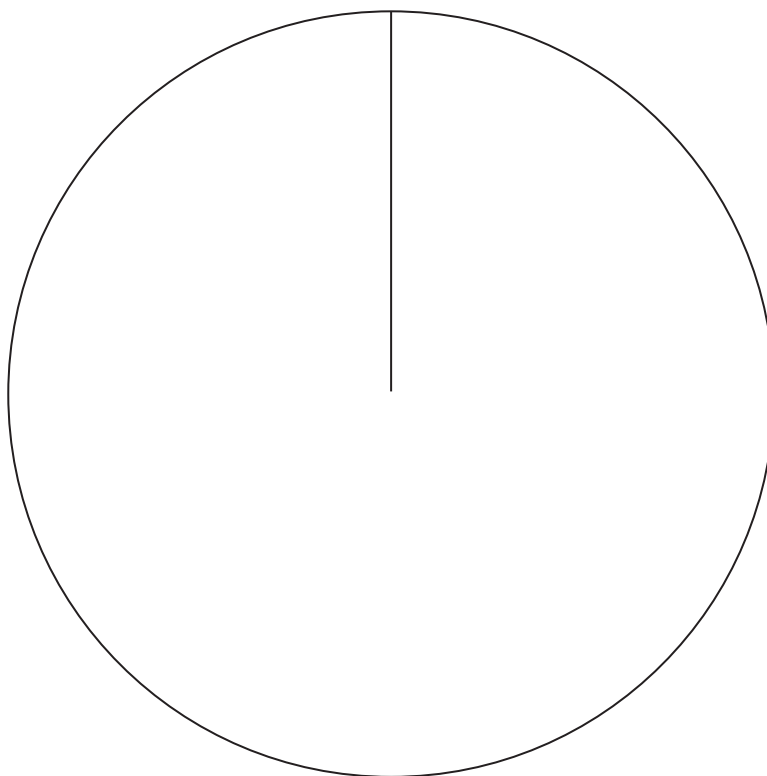
(1)

(Total 3 marks)

5. The table gives information about the types of milk and the amounts of milk sold in a shop one day.

Type of milk	Soya	Full fat	Semi-skimmed	Skimmed
Amount (in litres)	75	54	291	120

Draw a pie chart to show this information.

(Total 3 marks)

6. The table gives information about the weights of 50 letters.

Weight of letter (w grams)	Frequency
$50 < w \leqslant 100$	4
$100 < w \leqslant 150$	6
$150 < w \leqslant 200$	10
$200 < w \leqslant 250$	18
$250 < w \leqslant 300$	12

Work out an estimate for the mean weight.

.... grams

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

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