Paper Reference(s)

5381H/6A

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 6 – Section A (Calculator)

Higher Tier

Unit 1 Test – Data Handling

Thursday 11 June 2009 – Morning

Time for Section A: 20 minutes

Materials required for examination	**Items included with question papers**
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	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 4 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 FOUR 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. Zach has 10 CDs.
    The table gives some information about the number of tracks on each CD.

Number of tracks	Frequency	
11	1	
12	3	
13	0	
14	2	
15	4	

Work out the mean.

....

(Total 3 marks)

Q1

2. This coloured wheel spins round.
The sectors are coloured yellow, red, green and blue.

Diagram **NOT** accurately drawn

yellow
blue
red
green
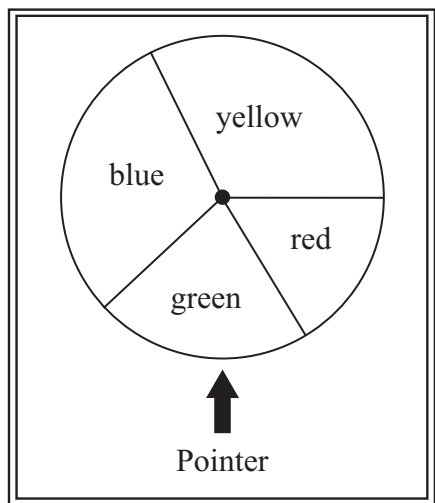Pointer

Harry spins the wheel.
When the wheel stops spinning, Harry writes down the colour shown by the pointer.

The probability that the wheel will stop at yellow or red or green is given in the table.

Colour	yellow	red	green	blue
Probability	0.35	0.1	0.3	

(a) Work out the probability that the wheel will stop at blue.

....

(2)

(b) Work out the probability that the wheel will stop at either yellow or red.

....

(2)

Hannah is going to spin the wheel 200 times.

(c) Work out an estimate for the number of times the wheel will stop at green.

....

(2)

(Total 6 marks)

Q2

3. The table shows the number of births in a hospital from 2000 to 2005

Year	2000	2001	2002	2003	2004	2005
Number of births	608	595	597	623	640	639

(a) Work out the 3-point moving averages for this information.

The first three have been done for you.

600, 605, 620, ...

(2)

(b) Use these moving averages to describe the trend.

....

(1)

(Total 3 marks)

Q3

4. The table shows some information about the weights of some packets of crisps.

Weight (*w* grams)	Frequency
$20 < w \leqslant 25$	4
$25 < w \leqslant 35$	12
$35 < w \leqslant 45$	14
$45 < w \leqslant 50$	8
$50 < w \leqslant 70$	6

Frequency
density

10   20   30   40   50   60   70

Weight (*w* grams)

Use the information in the table to draw a histogram.

Q4

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

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