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 15 November 2010 – Morning

Time for Section A: 20 minutes

Examiner's use only		

Team Leader's use only		

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 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.

Printer's Log. No.
N37710A
W850/R5381H/57570 6/6/6/6

N 3 7 7 1 0 A 0 1 0 8

Turn over

edexcel
advancing learning, changing lives

Leave blank

SECTION A

Answer ALL FOUR questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You may use a calculator in this section.

1. There are some red, white, yellow and blue beads in a bag.
Azim is going to take at random one bead from the bag.

The table shows the probabilities that Azim will take a red bead or a white bead or a yellow bead.

Colour	Red	White	Yellow	Blue
Probability	0.5	0.2	0.1	

Work out the probability that Azim will take a blue bead.

.....

Q1

(Total 2 marks)

Leave blank

2. Melissa records the numbers of hours 30 people were at a gym one month.
The table shows information about her results.

Number of hours (n)	**Frequency**		
$5 < n \leqslant 15$	1		
$15 < n \leqslant 25$	10		
$25 < n \leqslant 35$	3		
$35 < n \leqslant 45$	8		
$45 < n \leqslant 55$	8		

(a) Write down the modal class interval.

.....

(1)

(b) Work out the median class interval.

.....

(1)

(c) Work out an estimate for the mean.

..... hours

(4)

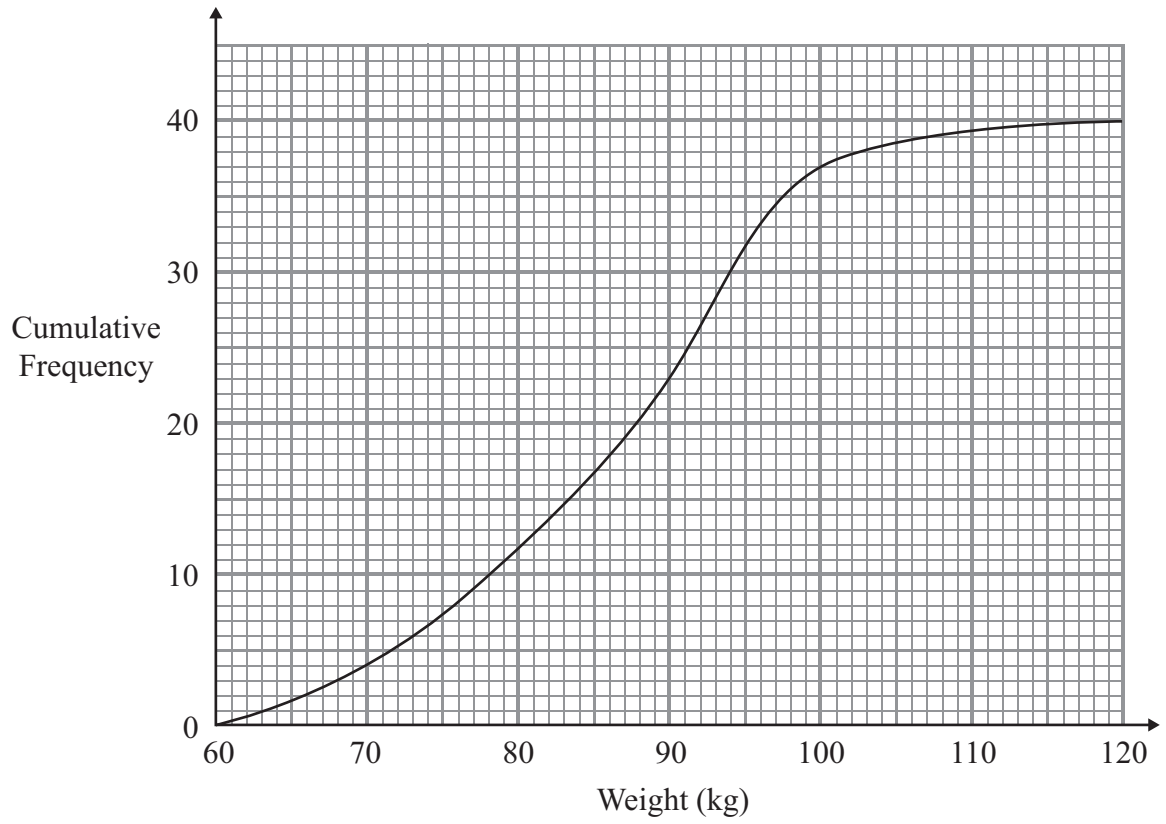
Q2

(Total 6 marks)

Leave blank

3. Rachel works at a slimming club.
She recorded the weights, in kg, of 40 members of the slimming club.

The cumulative frequency graph shows information about her results.



(a) Use the graph to work out an estimate for the interquartile range.

..... kg
(2)

(b) Use the graph to work out an estimate for the number of members who weighed **more** than 100 kg.

.....
(2)

Q3

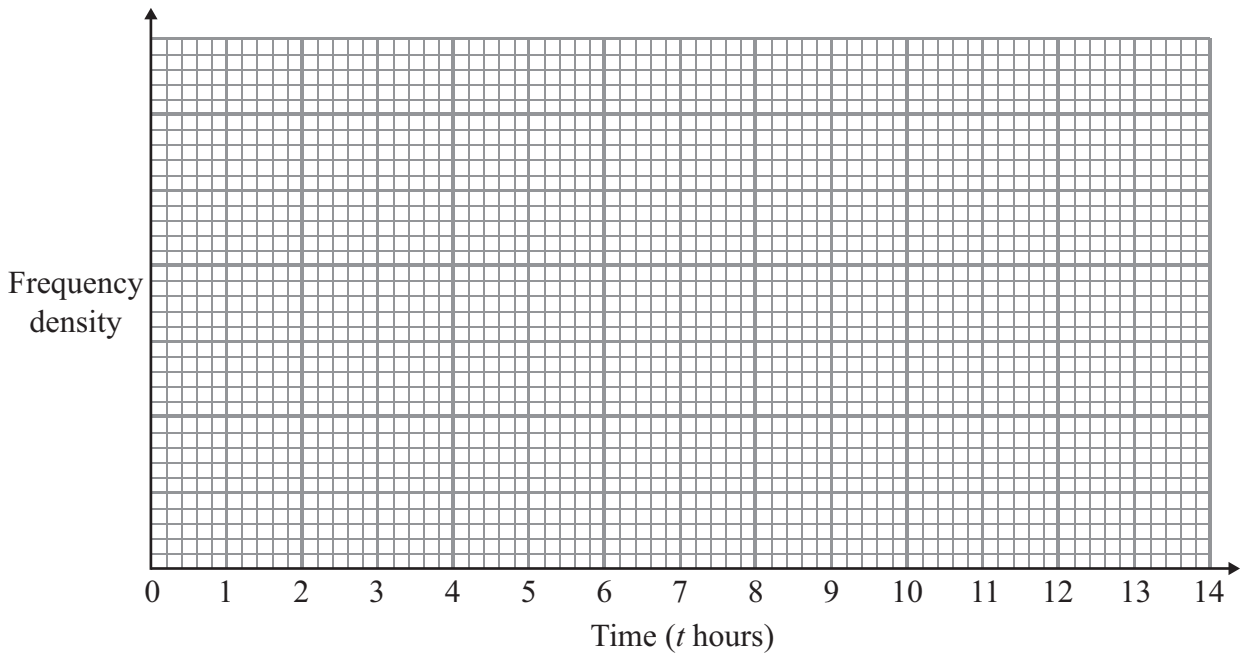
(Total 4 marks)

Leave blank

4. 40 cars were parked in a car park.
The table shows information about the times, in hours, that each car was parked.

Time (t hours)	Frequency
$0 < t \leqslant 3$	9
$3 < t \leqslant 5$	10
$5 < t \leqslant 9$	16
$9 < t \leqslant 14$	5

Draw a histogram for this information.



Q4

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

BLANK PAGE

BLANK PAGE

BLANK PAGE