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

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 6 – Section A (Calculator)

Higher Tier

Unit 1 Test – Data Handling

Thursday 17 November 2011 – 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.

Turn over

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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.   A basketball team played 8 games.

     The mean score for those 8 games is 31.5 points.

     The basketball team played one more game.

     The mean score of all 9 games is now 32

     How many points did the team score in the 9th game?

                                                           ………….. points   **Q1**
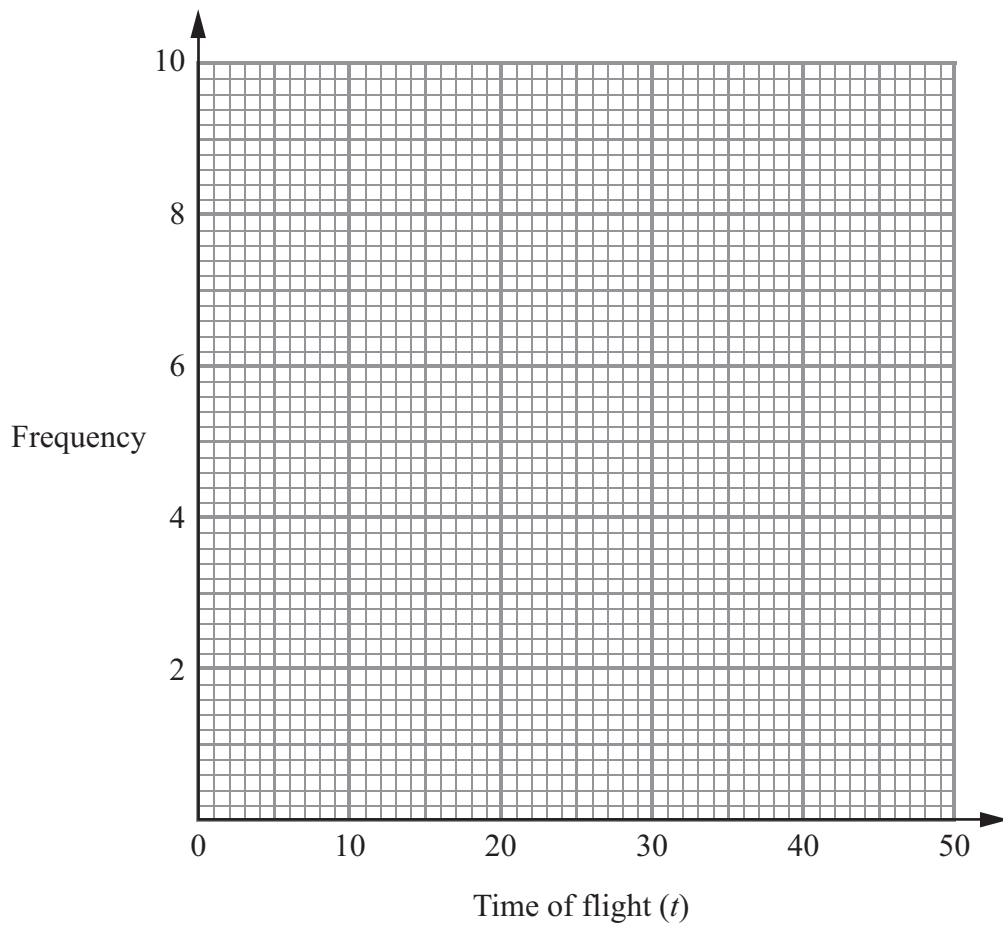
                                                           (Total 3 marks)

2. Jonty made 30 flights in his plane last year.

The table gives some information about the length of time t, in minutes, of each flight.

Time of flight (t)	Frequency
$0 < t \leqslant 10$	9
$10 < t \leqslant 20$	8
$20 < t \leqslant 30$	3
$30 < t \leqslant 40$	6
$40 < t \leqslant 50$	4

(a) Write down the class interval that contains the median.

....
(1)

(b) On the grid below, draw a frequency polygon to show this information.

Frequency

Time of flight (t)

(2) | Q2

(Total 3 marks)

3. The cumulative frequency table gives information about the ages of the teachers at West Ham School.

Age (*A*) in years	Cumulative frequency
$20 < A \leqslant 30$	5
$20 < A \leqslant 40$	25
$20 < A \leqslant 50$	40
$20 < A \leqslant 60$	55
$20 < A \leqslant 70$	60

(a) On the grid opposite, draw a cumulative frequency graph for this information.

(2)

(b) Use your cumulative frequency graph to find an estimate for
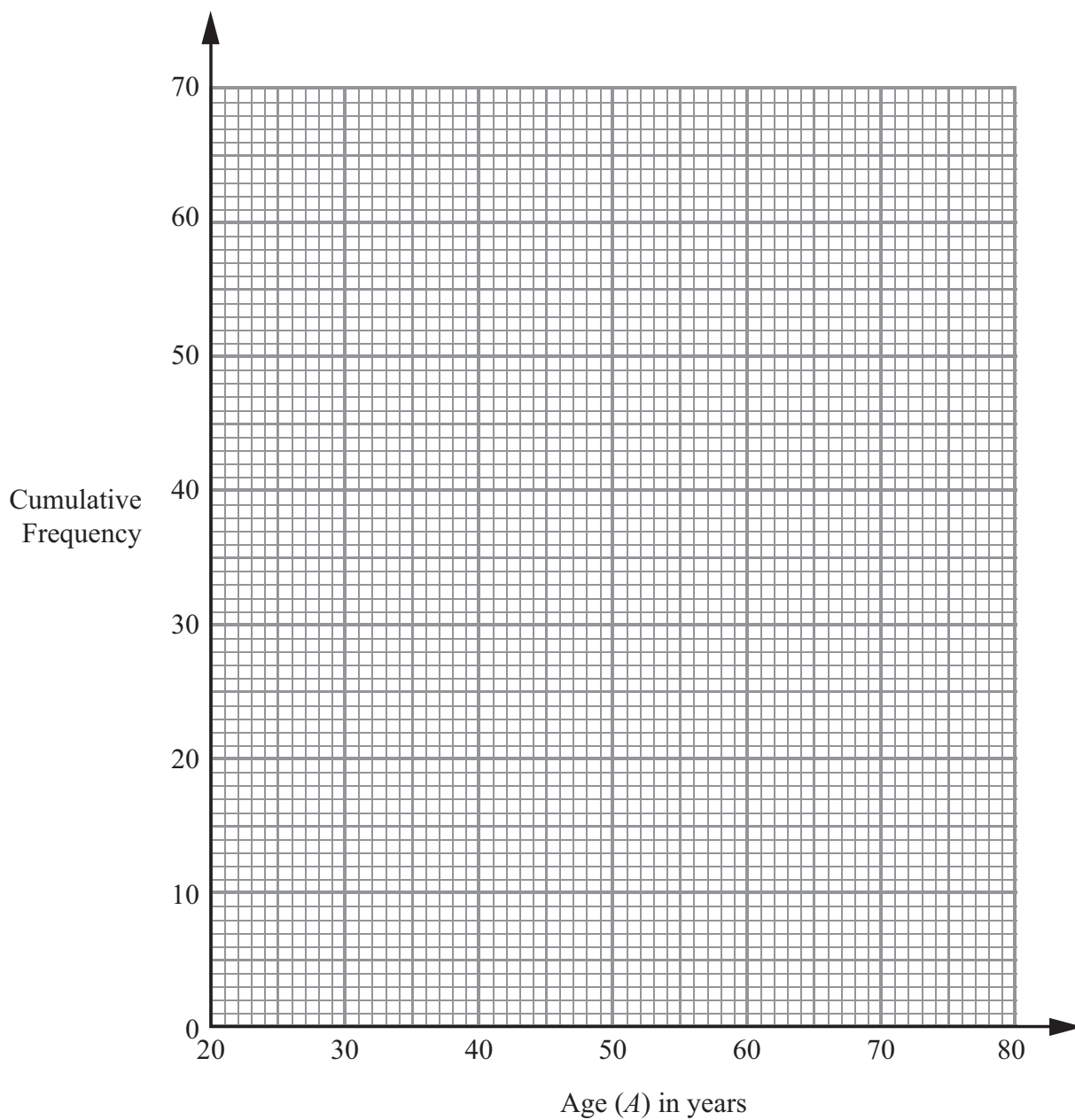
(i) the median age of the teachers,

.... years

(ii) the interquartile range of the age of these teachers.

.... years

(4)

Cumulative Frequency

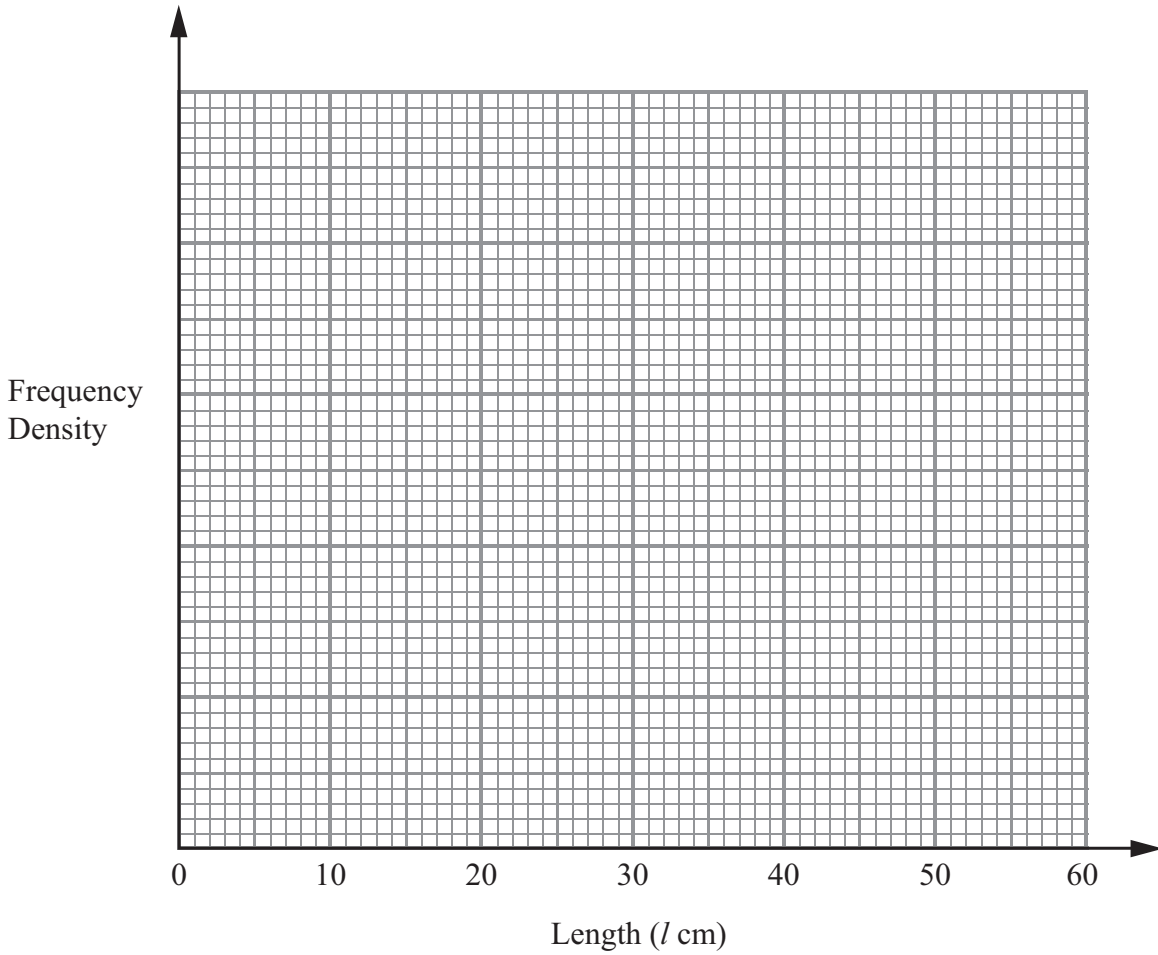Age (*A*) in years

(Total 6 marks)

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Turn over

4. Jim likes to go fishing.

The table shows some information about the lengths of the fish he caught last week.

Length (*l* cm)	Frequency
$0 < l \leqslant 10$	4
$10 < l \leqslant 15$	12
$15 < l \leqslant 20$	20
$20 < l \leqslant 30$	16
$30 < l \leqslant 50$	5

Use the information in the table to draw a histogram.

Frequency
Density

0   10   20   30   40   50   60

Length (*l* cm)

Q4

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

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