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

Paper Reference(s)

5381F/5A

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 5 – Section A (Calculator)

Foundation 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	

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.

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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. Ruben carries out a traffic survey.
   He records the colour of all the cars that pass his house.

   Here are his results.

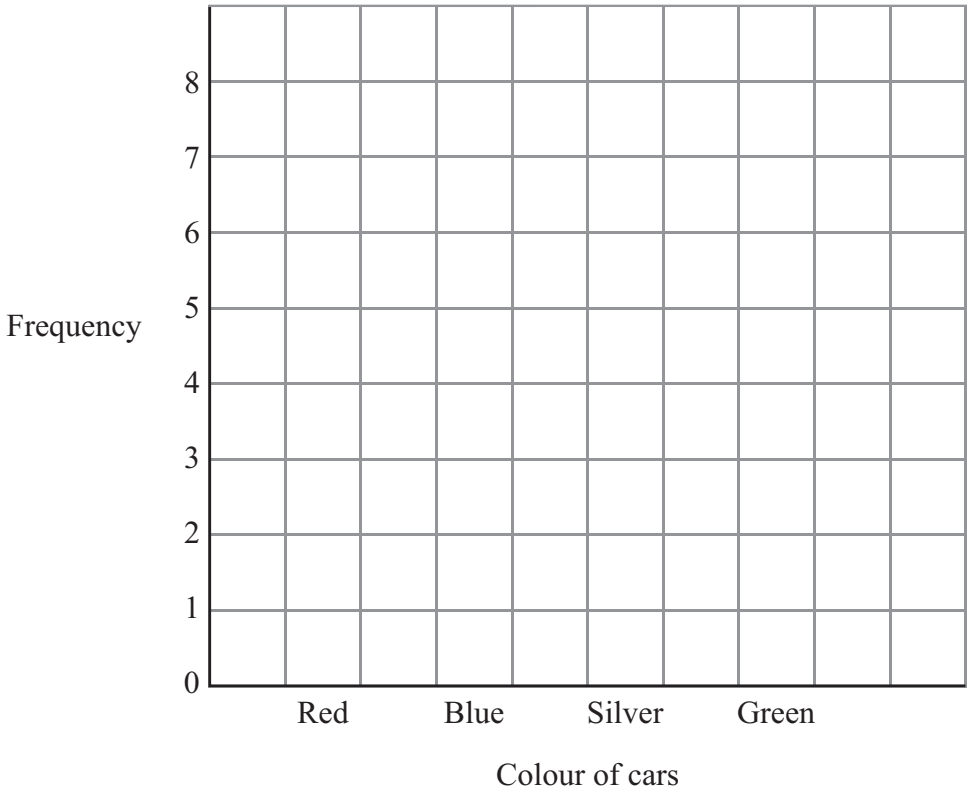 | | | | | |
   |---|---|---|---|---|
   | Red | Blue | Green | Red | Green |
   | Silver | Silver | Red | Silver | Silver |
   | Red | Green | Silver | Silver | Red |
   | Blue | Silver | Red | Green | Blue |
   | Silver | Red | Blue | Green | Blue |

   (a) Complete the frequency table for his results.

Colour	Tally	Frequency
Red		
Blue		
Silver		
Green		

   (2)

(b) On the grid, draw a bar chart to show this information.

Frequency

8
7
6
5
4
3
2
1
0

Red   Blue   Silver   Green

Colour of cars

(2)

(c) What colour is the mode?

....

(1)   **Q1**

(Total 5 marks)

2. There are three blue balls and one red ball in a bag.
Hannah takes, at random, a ball from the bag.

Write down the probability that Hannah takes a red ball.

....   **Q2**

(Total 1 mark)

3. A basketball team played 8 games.

Here is the number of points they scored in each game.

| 24 | 36 | 18 | 25 | 45 | 36 | 48 | 20 |

(a) Work out their median score for these 8 games.

…………………… points

(2)

(b) Work out their mean score.

.... points

(2)

The basketball team played one more game.

Their mean score for all 9 games is 32

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

.... points

(2)

(Total 6 marks)

4. Jonty made 30 flights in his plane last year.
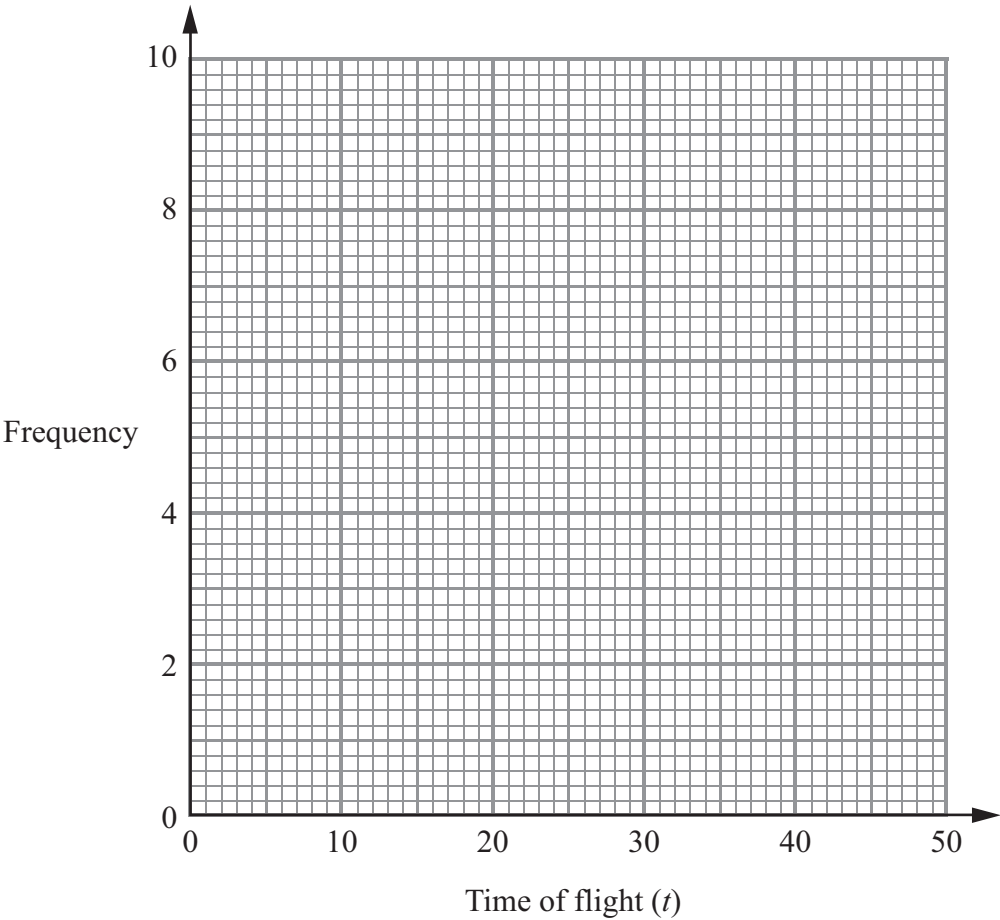
The table gives some information about the length of time t, in minutes, of each flight.

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) | Q4

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

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