Paper Reference(s)

5381F/5B

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 5 – Section B (Non-Calculator)

Foundation Tier

Unit 1 Test – Data Handling

Tuesday 1 March 2011 – Morning

Time for Section B: 20 minutes

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
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.

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

P38686A0108

edexcel
advancing learning, changing lives

SECTION B

Answer ALL SIX questions.

Write your answers in the spaces provided.

You must NOT use a calculator in this section.

You must write down all stages in your working.

1. Carina asked each of her friends which newspaper they liked the best.
    Here are her results.

Times	Mirror	Mirror	Mirror	Times
Sun	Telegraph	Times	Sun	Mirror
Telegraph	Sun	Times	Telegraph	Mirror
Mirror	Guardian	Telegraph	Mirror	Telegraph

(a) Complete the frequency table.

Newspaper	Tally	Frequency
Times		
Mirror		
Sun		
Telegraph		
Guardian		

(2)

Carina says that the Telegraph is the mode.

(b) Is she right?
    Give a reason for your answer.

....

....

(1)

(Total 3 marks)

2. The table gives information about the heights, in cm, of 7 students.

Name	John	Charles	Mary	Debby	Steve	Sasha	Haji
Height	162	174	158	155	160	159	165

Write down the name of the student with the median height.

....
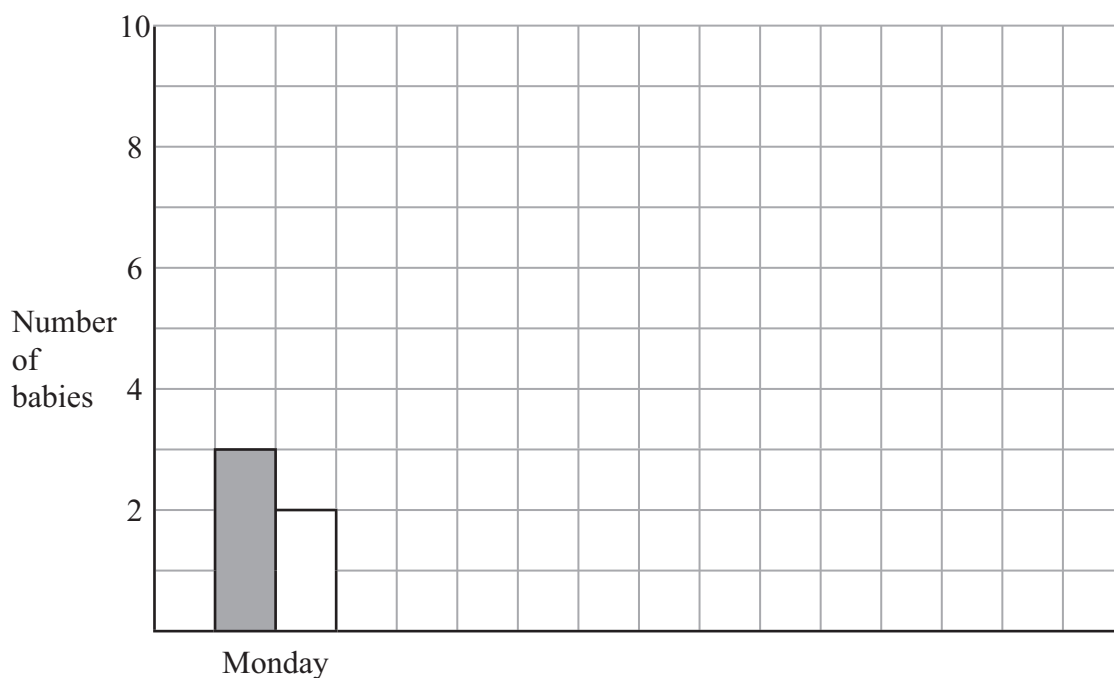
(Total 2 marks)

3. The table gives information about the number of male babies and female babies born in a hospital on each of 5 days last week.

Day	Mon	Tues	Wed	Thurs	Fri
Male	3	4	5	3	6
Female	2	3	4	6	6

Complete the bar chart to show this information.

Key	
�©	Male
	Female

(Total 2 marks)

Turn over

4. A student recorded the number of points a basketball team scored in each game it played.

He drew this stem and leaf diagram for his results.

3	0 2 4 5 7
4	1 4 6 8 8 8
5	4 5 5 7 9
6	3 4 6 7 9 9
7	0 1 3

Key:

4 | 1 means 41 points

(a) How many games did the basketball team play?

....
(1)

(b) Work out the range.

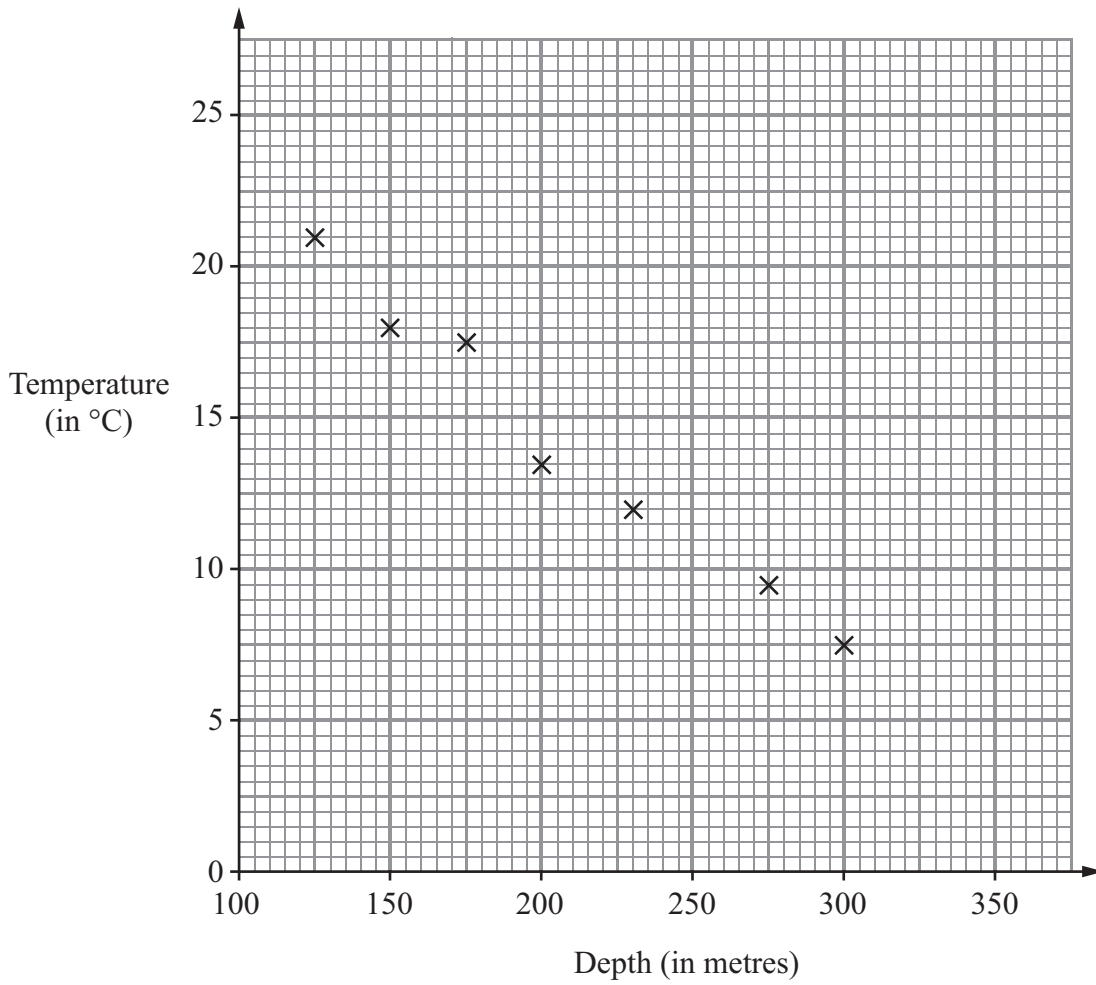.......................................
(2)

(Total 3 marks)

5. A scientist recorded the temperature of the sea at each of 7 depths.
The scatter graph shows information about these temperatures.

(a) Describe the relationship between the depth and the temperature of the sea.

....

....

(1)

(b) Estimate the temperature of the sea at a depth of 250 metres.

.... °C

(2)

(Total 3 marks)

Turn over

6. There are only red crayons, blue crayons, green crayons and yellow crayons in a bag.
The number of green crayons in the bag is equal to the number of yellow crayons in the bag.

One of the crayons is taken at random.
The probability that the crayon will be red is 0.45
The probability that the crayon will be blue is 0.25

Work out the probability that the crayon will be green.

....
(Total 2 marks)

TOTAL FOR SECTION B: 15 MARKS
TOTAL FOR PAPER: 30 MARKS

END

BLANK PAGE

BLANK PAGE