

Centre No.						Paper Reference (complete below)			Surname	Initial(s)
Candidate No.						5			H / B	Signature

Paper Reference(s)

5381H/6B 5542H/9B

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 6 – Section B (Non-Calculator)

Unit 1 Test – Data Handling

Mathematics B (Modular) – 2544

Paper 9 – Section B (Non-Calculator)

Unit 2 Test – Data Handling

Higher Tier

Thursday 13 November 2008 – 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

Examiner's use only

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Team Leader's use only

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Instructions to Candidates

In the boxes above, write your centre number, candidate number, the paper reference, your surname, initials and signature. The paper reference is shown above. If more than one paper reference is shown, you should write the reference of the paper for which you have been entered.

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.

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 B

Answer ALL FOUR questions.

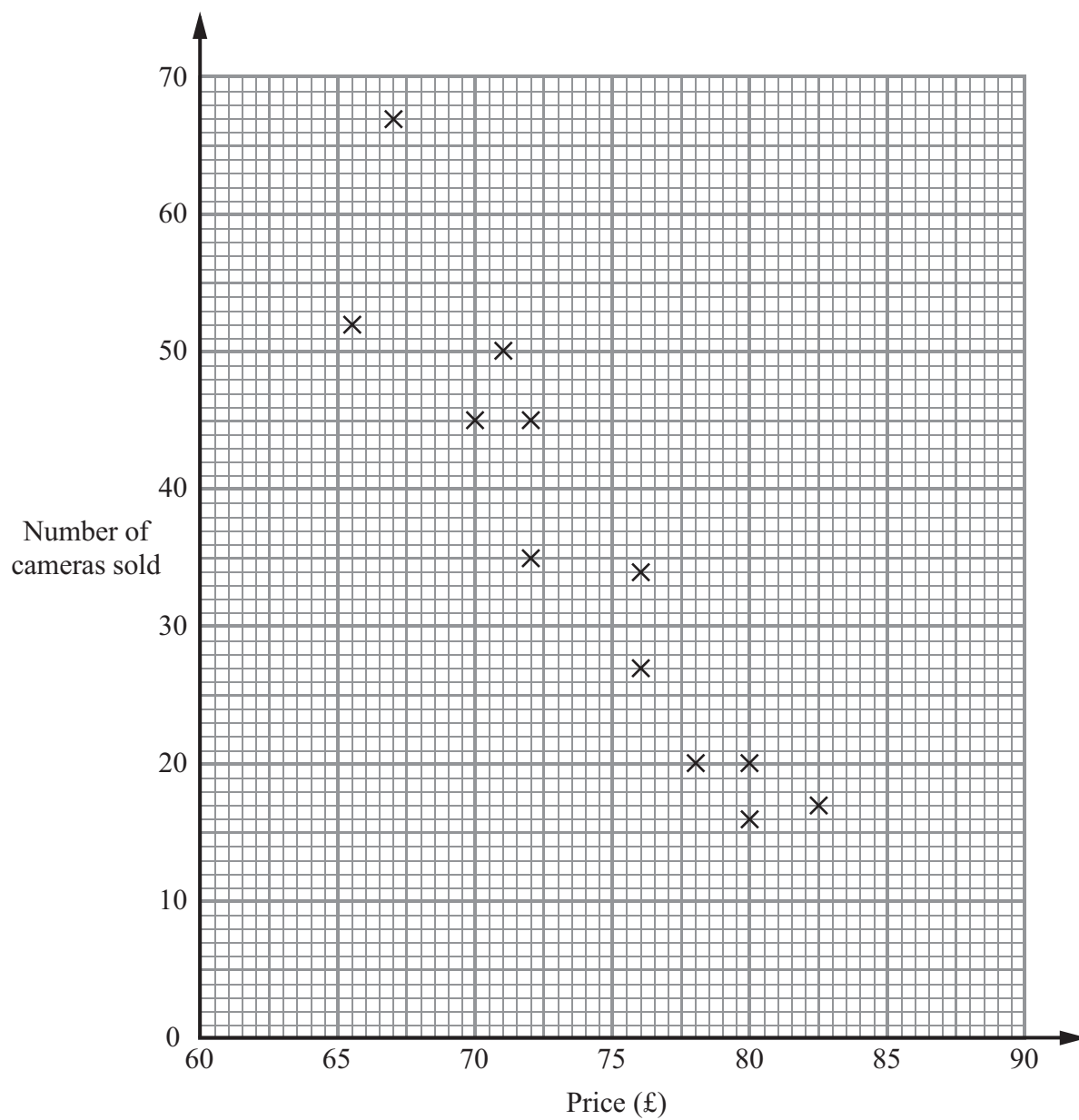
Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

1. A superstore sells the Clicapic digital camera.
The price of the camera changes each week.
Each week the manager records the price of the camera and the number of cameras sold that week.

The scatter graph shows this information.



Leave
blank

The table shows the prices and the numbers of Clicapic cameras sold during another 4 weeks.

Price (£)	67	70	75	80
Number of cameras sold	50	50	40	25

- (a) On the scatter graph, plot the information from the table. (2)
- (b) Describe the relationship between the price of the camera and the number of cameras sold.
-
-
- (1)
- (c) Draw a line of best fit on the scatter graph. (1)
- (d) Use your line of best fit to estimate how many cameras are sold in a week when the price is £74

.....
(1)

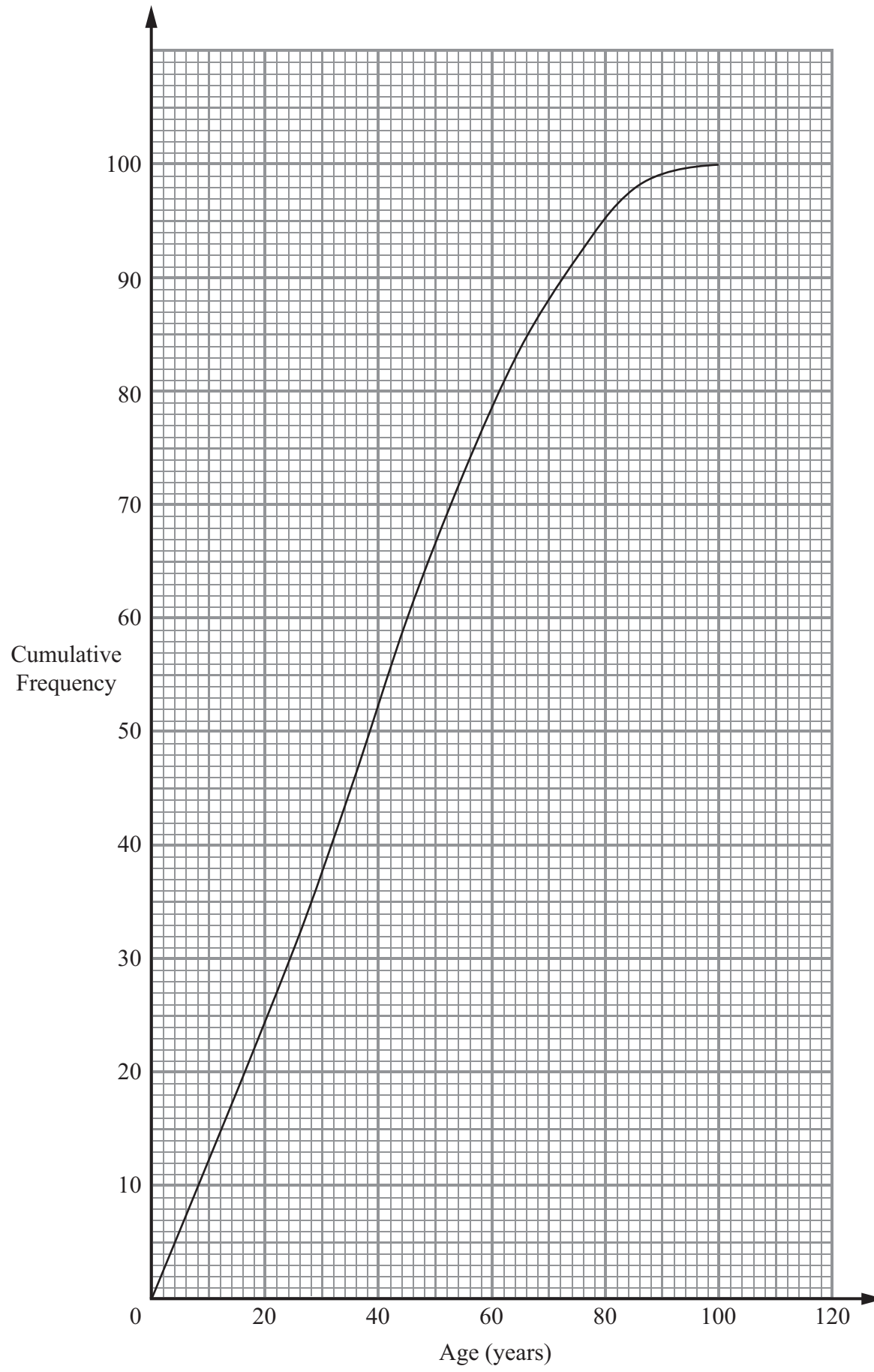
Q1

(Total 5 marks)



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2. The cumulative frequency graph shows some information about the ages of 100 people.



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(a) Use the graph to find an estimate for the number of these people less than 70 years of age.

.....
(1)

(b) Use the graph to find an estimate for the median age.

..... years
(1)

(c) Use the graph to find an estimate for the interquartile range of the ages.

..... years
(2)

(Total 4 marks)

Q2

3. Sue wants to find out if a 6-sided dice is biased.
She rolls the dice six times.

The table shows her results.

Score	1	2	3	4	5	6
Frequency	0	1	1	1	1	2

Sue says

“My experiment shows this dice is biased”.

Sue is wrong.
Explain why.

.....
.....
.....

(Total 1 mark)

Q3



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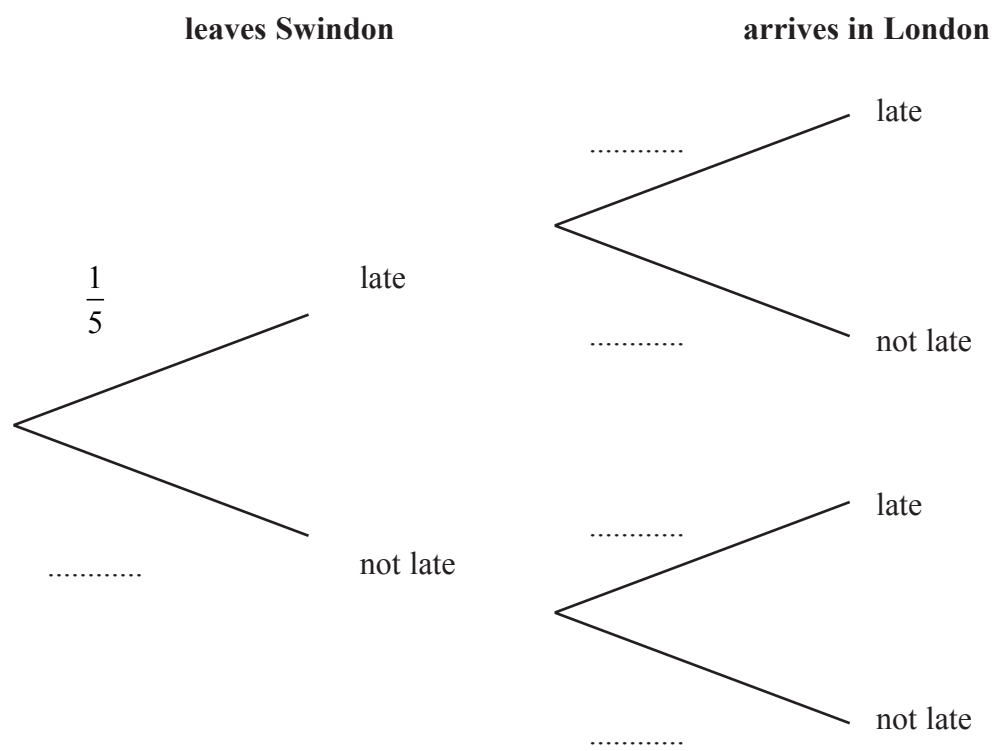
4. Nicola is going to travel from Swindon to London by train.

The probability that the train will be late leaving Swindon is $\frac{1}{5}$

If the train is late leaving Swindon, the probability that it will arrive late in London is $\frac{7}{10}$

If the train is **not** late leaving Swindon, the probability that it will arrive late in London is $\frac{1}{10}$

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that Nicola will arrive late in London.

(3)

Q4

(Total 5 marks)

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

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