Centre No.						Paper Reference							Surname	Initial(s)
Candidate No.										/			Signature	

Paper Reference(s)

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics

Unit 1 – Section A (Calculator)

Data Handling

Higher Tier

Specimen Paper

Time: 20 minutes

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)**.
There are 4 questions in this question paper. The total mark for this section is 15.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used.
If your calculator does not have a π button, then 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.

1. Many people take taxis to a club.
One night, the manager at the club recorded the number of people in each taxi as it arrived.

His results are shown in the table.

Number of people	Frequency
1	5
2	9
3	14
4	11
5	5
6	6

Find the mean number of people in a taxi.

Q1

.....

(Total 3 marks)

Leave blank

2. The probability that Asif will pass his driving test at the first attempt is 0.6

(a) Explain why Asif is more likely to pass the test at the first attempt than he is to fail at the first attempt.

.....

.....

(1)

A driving test centre is designing a questionnaire.

This question has been designed to find out how many hours of driving lessons have been taken by someone who is about to take a test.

"How long have you spent on driving lessons?"

(b) Design a better question for the driving centre to use.
You should include some response boxes.

(2) **Q2**

(Total 3 marks)

Leave blank

3. John kept a record of the number of birds that visited his bird table over a number of days. This information is shown in the table.

Mon	Tue	Wed	Thu	Fri	Sat
147	161	238	135	167	250

(a) Work out the three-point moving averages for this information.

....

(2)

John measured the time, in seconds, that birds spent on each individual visit to the bird table. Some of this information is shown in the table below and in the histogram opposite.

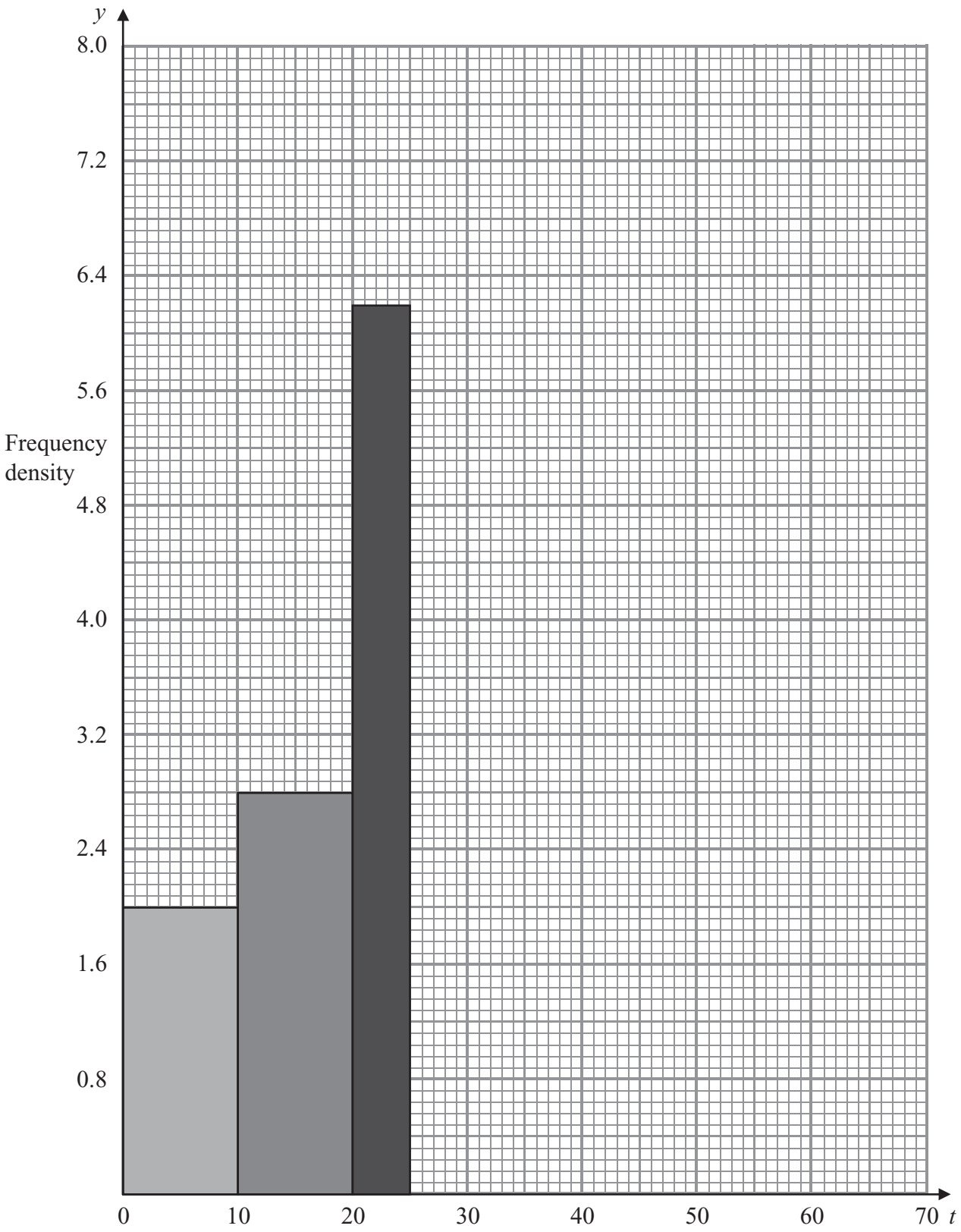
Time (x seconds)	**Frequency**
$0 < x \leqslant 10$	20
$10 < x \leqslant 20$	
$20 < x \leqslant 25$	
$25 < x \leqslant 30$	22
$30 < x \leqslant 50$	12
$x > 50$	0

(b) Use this information to complete the frequency table.

(2)

Leave blank

(c) Use this information to complete the histogram.



(2)

Q3

(Total 6 marks)

Leave blank

4. Wes gives Bronwen a box of 25 mixed sweets.
12 of them are chocolates, 8 of them are toffees and 5 of them are mints.
All of the sweets have identical wrappers.

Bronwen chooses at random 2 sweets.

What is the probability that Bronwen will choose 2 toffees?

.....

Q4

(Total 3 marks)

TOTAL FOR SECTION A: 15 MARKS

END

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