



ASDAN Functional Mathematics January 2009

Level 1 Test Paper 1

Candidate Question Paper

Centre Name:	Centre Number:
Candidate Name:	Candidate Number:
Date completed:	

Instructions to Candidates

- You have 1 hour to complete this paper.
- You may use a pen, pencil, eraser, ruler, mathematical drawing equipment and a calculator.
- Lined paper, squared paper and graph paper will be provided.
- Make sure that your name and candidate number are on all the paper you have used and that any loose sheets are securely attached to this booklet.

ASDAN USE ONLY

Paper 1 – marks	
Representing	
Analysing	
Interpreting and communicating results	
TOTAL MARKS (maximum 40)	



Functional Mathematics Level 1

There are 2 parts to this assessment:

Paper 1 - A problem solving task

(Total 40 marks)

Paper 2 - Short questions to be answered on the paper

(Total 20 marks)

Both papers will be carried out under controlled conditions.

You must complete both parts of the assessment to gain your Functional Mathematics qualification at Level 1.

You have 1 hour to complete Paper 1 and 30 minutes to complete Paper 2.

Your task

People have been warned about the amount of household rubbish they produce and have been encouraged to do more recycling.

Use the information provided to find out if the Government policy on recycling is working in England.

Household waste from 2000/01 to 2006/07 England

thousand tonnes

Household rubbish from:	England						
	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Regular household collection/dustbin collection	16,655	16,683	16,528	16,066	15,470	14,616	14,050
Other household sources	1,381	1,277	1,351	1,244	1,205	1,314	1,173
Civic amenity sites/Tips	4,234	4,367	4,213	3,616	3,198	2,726	2,576
Household recycling	2,809	3,197	3,740	4,521	5,785	6,796	7,976
Total household	25,079	25,524	25,832	25,448	25,658	25,454	25,775

Based on data from the Department for Environment, Food & Rural Affairs

Look at the figures in the table.

- Write one sentence for each category of household rubbish saying what has happened during the seven years from 2000/01 to 2006/07.
- Suggest reasons for these changes.

Recycling

The amount of household recycling has increased by 5,157 thousand tonnes over the seven years shown in the table.

- What is the mean increase per year?
- If this rate of increase goes on, estimate the amount of household recycling in 2007/08. Give your answer to the nearest thousand tonnes.
- Is this a sensible prediction? Give reasons for your answer.
- Show how you would check your calculations at each stage.
- Is it likely, certain or impossible that the amount of household recycling will go down over the next 10 years? Give a reason for your answer.

Displaying the information

- Display the amount of rubbish in the different categories for 2006/7 in a way that is clear to understand. (You may find it helpful to round the figures.)
- Explain why you have chosen this type of display.



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