



**ASDAN Functional Mathematics
January 2009**

**Level 2
Test Paper 1**

Candidate Question Paper

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

Instructions to Candidates

- You have 1 hour 30 minutes to complete this paper.
- You may use a pen, pencil, eraser, ruler, mathematical drawing equipment and a calculator.
- 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 2

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 2.

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

Household waste and recycling

There has been a lot of concern recently about the amount of household waste that is produced and people have been encouraged to do more recycling. Use the information provided in the table to find out if the Government policy is succeeding.

The table shows the breakdown of municipal waste into different categories over a seven-year period.

Municipal waste from 2000/01 to 2006/07 England

thousand tonnes

Household waste from:	England						
	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Regular household 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	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

Throughout this task, support your answers with appropriate calculations. You will be given marks for showing how you have checked your calculations at all stages of your work.

- Find out how the collection of household waste has changed during the seven-year period. You may do this by calculating the percentage change for each of the categories and finding the mean change per year.
- Use your findings to predict the figures for 2007/8, rounding your answers appropriately.
- Is this prediction sensible? Give reasons for your answers.
- Use the information at the start and end of the seven-year period to decide which category has the biggest change as a percentage of the total household waste.
- Display your findings in an appropriate format and explain your choice.



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