



Free-Standing Mathematics Qualification
Higher Level

Data Handling

4986/PM

Preliminary Material

Data Sheet

Specimen Data Sheet

To be opened and issued to candidates one to three weeks prior to the examination

REMINDER TO CANDIDATES

YOU MUST **NOT** BRING THIS DATA SHEET
WITH YOU WHEN YOU SIT THE EXAMINATION.
A CLEAN COPY WILL BE MADE AVAILABLE.

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Electricity generation

The table below shows the sources used to produce UK electricity in the year from April 2005 to March 2006.

Fuel sources used to generate electricity	Percentage of UK electricity
Coal	35
Natural gas	37
Nuclear	21
Renewable (hydroelectric, wind, geothermal)	4
Other	3

How cities compare

The sharp increase in property prices in recent years, and a far slower growth in the cost of renting, means that it is becoming cheaper to rent than to buy. The table below compares data for a number of cities.

Location	Average property price	Cost per month	
		Interest only mortgage	Rent
Cardiff	£ 124 895	£ 525	£ 512
Central London	£ 513 681	£ 2161	£ 1860
London Docklands	£ 272 510	£ 1147	£ 1056
Manchester	£ 139 988	£ 589	£ 572
Oxford	£ 200 420	£ 843	£ 798

Newspaper circulation

The sales of the five highest selling Sunday newspapers are recorded each month.

The data below gives the average sales in January 2006 and January 2007.

Sunday newspaper	Sales in January 2006	Sales in January 2007
Mail on Sunday	2 404 511	2 303 472
News of the World	3 789 176	3 426 719
People	895 275	761 595
Sunday Mirror	1 574 054	1 460 328
Sunday Times	1 357 153	1 288 421

Video Games

The Metro newspaper asked a panel of 18–44 year olds whether they played video games each week.

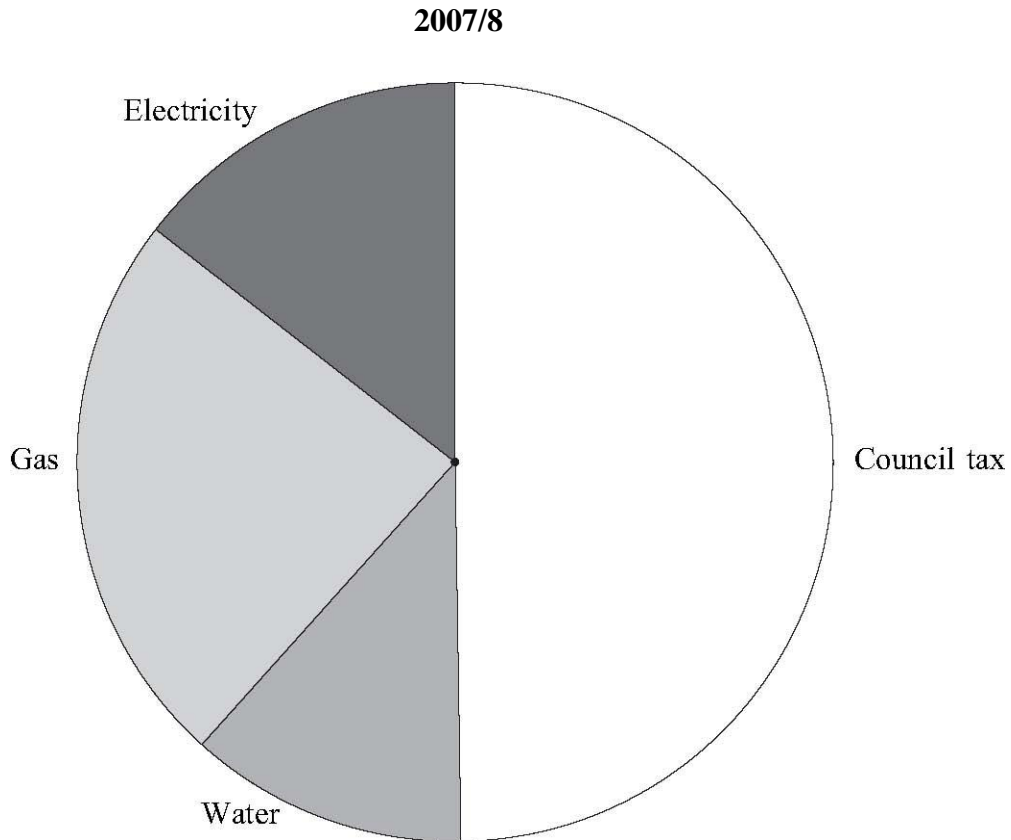
Those who did play video games each week were then asked for how long they played video games in a typical week and their responses are shown below.

Length of time, t minutes	Percentage of people who played video games
$0 \leq t < 10$	0
$10 \leq t < 60$	19
$60 \leq t < 120$	22
$120 \leq t < 300$	31
$300 \leq t < 600$	14
$600 \leq t < 900$	6
$900 \leq t < 1500$	8
$1500 \leq t$	0

Household Bills

A newspaper found the average annual costs of living in a house in the financial year 2007/08. These costs were for electricity, gas, water and the council tax for a band D house.

The total annual cost of these basic charges in 2007/08 was £2627.



END OF DATA SHEET

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How cities compare: Source: *Hometrack*
Newspaper Circulation: *'National Daily Newspaper Circulation'* © Audit Bureau of Circulations
Video Games: *'Game for Anything'* by Sarah Hills, *Metro*, 18 January 2007
Household Bills: *'How Bills Have Risen'* by Sean Poulter, © *Daily Mail*, March 2007