

Free-Standing Mathematics Qualification
January 2008
Intermediate Level



HANDLING AND INTERPRETING DATA
Unit 6

6986/2PM

PRELIMINARY MATERIAL

DATA SHEET

**To be issued to candidates between Friday 18 January
2008 and Friday 25 January 2008**

REMINDER TO CANDIDATES

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

Charter airline delay

In the summer period of 2005, from April to October, 10.9 % of all charter flights operated by the leading holiday airlines were more than one hour late. The table below gives, for five airlines, the percentage of flights which were more than one hour late in this summer period, together with the average delay.

Charter Airline	Percentage of flights more than one hour late	Average delay (minutes)
Bmi	14.3	37.3
First Choice Airways	5.7	16.7
My Travel Airways	8.5	23.7
Monarch Airlines	12.8	33.2
Thomsonfly	6.4	17.9

Supermarket

A supermarket recorded the amount spent, in pounds, by each of the 150 customers who passed through one check-out on one morning.

The data are given in the table below.

Amount spent, £ a	Number of customers
$0.00 < a \leq 10.00$	3
$10.00 < a \leq 20.00$	12
$20.00 < a \leq 30.00$	10
$30.00 < a \leq 35.00$	15
$35.00 < a \leq 40.00$	24
$40.00 < a \leq 50.00$	29
$50.00 < a \leq 60.00$	18
$60.00 < a \leq 80.00$	22
$80.00 < a \leq 90.00$	10
$90.00 < a \leq 100.00$	5
$100.00 < a \leq 110.00$	2
Over 110	0

Mobile phones

As part of her Business course, Alana asked 120 students in her college for how many minutes they had used their mobile phones in the last month.

The results are listed in the table below.

Number of minutes, t	Number of students
$0 < t \leq 200$	0
$200 < t \leq 250$	1
$250 < t \leq 300$	5
$300 < t \leq 350$	8
$350 < t \leq 400$	16
$400 < t \leq 450$	24
$450 < t \leq 500$	29
$500 < t \leq 550$	22
$550 < t \leq 600$	8
$600 < t \leq 650$	5
$650 < t \leq 700$	2
Over 700	0

Television licences

In 2005, the total number of households with television licences was 24.7 million.

Details of the types and numbers of television licences possessed are given in the table below.

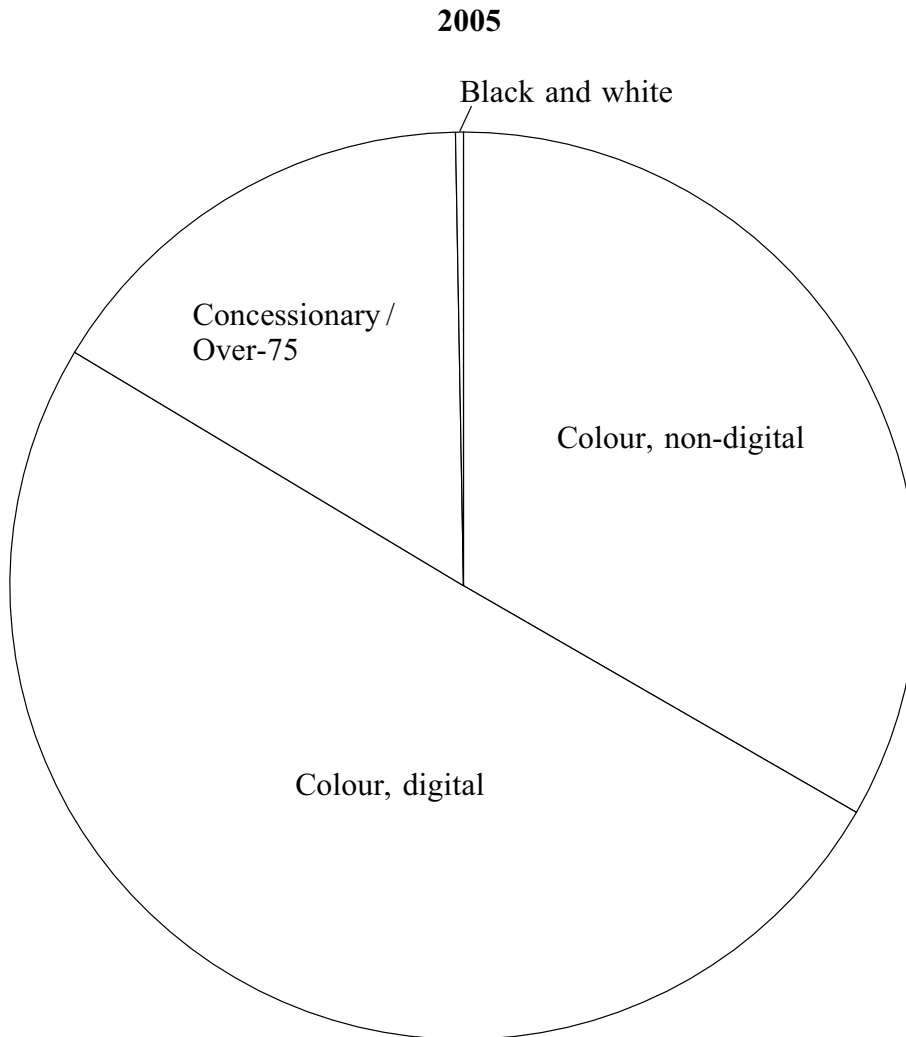
Type of licence	Number of households (in millions)
Black and white only	0.1
Colour	20.6
Concessionary	0.2
Over-75	3.8

Data for Television Licences continue on the next page

Turn over ►

Households with black and white only television licences are unable to receive digital channels. Households with full licences may have the ability to watch additional digital channels. Eight million households do so by subscribing to Sky, others use cable or a freeview box. It is believed that 60 % of households with colour licences have this digital facility.

It may be assumed that all those people with black and white only television licences watch only black and white televisions. Conversely, it may be assumed that those who watch only black and white televisions only have black and white television licences.



END OF DATA SHEET

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Charter airline: The Press Association

Television licences: BBC Annual Report and Accounts 2004/2005, BBC © 2005

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