Free-Standing Mathematics Qualification
January 2006
Intermediate Level

HANDLING AND INTERPRETING DATA   **6986/2PM**
Unit 6

PRELIMINARY MATERIAL

DATA SHEET

To be issued to candidates between Friday 20 January and Friday 27 January 2006

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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Sales by large retailers

The annual sales, in 2003, in the UK of six large retailers are given below, together with the numbers of head-office staff.

Note: 1. One billion is one thousand million.

2. Head-office staff are not necessarily employed at one single head office of that company.

Retailer	Sales (in billions of pounds)	Number of head-office staff
Asda	13.4	1000
Morrisons	4.3	425
Safeway	8.8	1800
Sainsbury's	17.4	4000
Tesco	26.1	5000
Marks and Spencer	8.1	3000

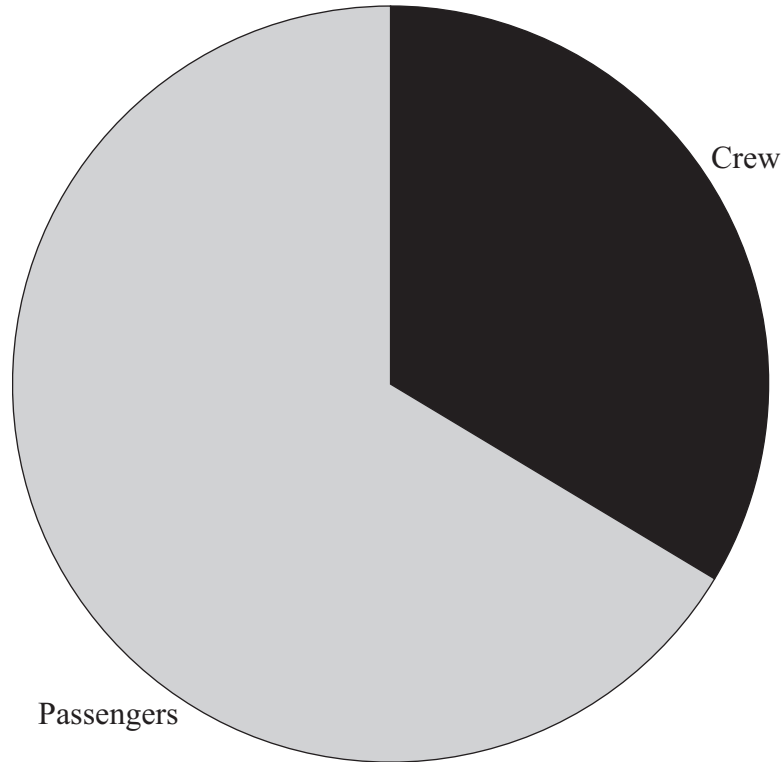Source: Information provided by supermarkets

Times waiting for a sale

A shop had a queue of 280 people waiting outside when the shop opened its doors at the start of a sale. The waiting times of these people were recorded and are given in the table below.

Waiting time (w minutes)	Frequency
$0 \le w < 40$	25
$40 \le w < 80$	106
$80 \le w < 120$	85
$120 \le w < 160$	34
$160 \le w < 200$	21
$200 \le w < 240$	9
Total	280

Queen Mary 2

On one cruise, the Queen Mary 2 carried 3600 people.
The pie chart below represents the number of crew and the number of passengers on this cruise.

Turn over

Ranking of cars

Jeremy gives a number of cars a score in four different categories:

    (a)   economy
    (b)   performance
    (c)   comfort
    (d)   reliability.

Jeremy weights these scores in the ratio $4:1:3:2$ according to the importance which he attaches to each of the four categories.

Driving test

A driving test is expected to last one hour.
The actual times taken on one Wednesday were recorded as follows.

Time taken (t minutes)	Number of tests
$0 < t \le 30$	0
$30 < t \le 40$	1
$40 < t \le 50$	24
$50 < t \le 60$	72
$60 < t \le 70$	19
$70 < t \le 80$	3
$80 < t \le 90$	1

END OF DATA SHEET