2. The ages, in years, of a sample of 23 members of a tennis club are summarised by the stem and leaf diagram below.

Age		Totals
1	6 7 8 8	(4)
2	2 2 3 3 5 5 6 7	(8)
3	3 4 4 8 9 9	(6)
4	1 2 5	(3)
5	5	(1)
6	6	(1)

Key: 3 | 8 represents 38 years

(a) Find

(i) the median age of these members,

(ii) the interquartile range of the ages of these members.

(3)

For this dataset an outlier is defined as an age that is

either more than $1.5 \times$ interquartile range above the upper quartile

or more than $1.5 \times$ interquartile range below the lower quartile

(b) On the grid provided on page 7 of the answer book draw a box plot to represent the ages of these members, indicating clearly any outliers.

(5)

A record was kept of the time, x hours, spent by these 23 members at the club in a year.

The results are summarised by

$$\sum(x-200)=115 \qquad \sum(x-200)^2=4623$$

(c) Calculate

(i) the mean of x

(ii) the standard deviation of x

(5)

(Total for Question 2 is 13 marks)