

2. The marks of a group of female students in a statistics test are summarised in Figure 1

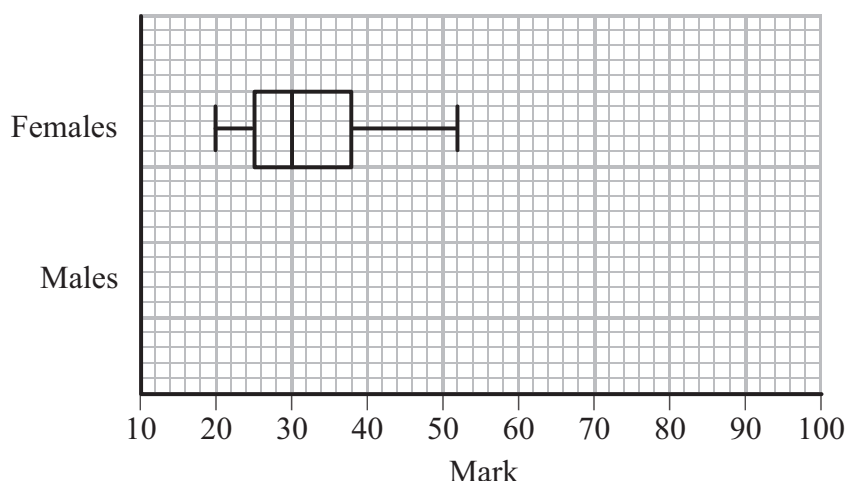


Figure 1

(a) Write down the mark which is exceeded by 75% of the female students. (1)

The marks of a group of male students in the same statistics test are summarised by the stem and leaf diagram below.

Mark	(2 6 means 26)	Totals
1	4	(1)
2	6	(1)
3	4 4 7	(3)
4	0 6 6 7 7 8	(6)
5	0 0 1 1 1 3 6 7 7	(9)
6	2 2 3 3 3 8	(6)
7	0 0 8	(3)
8	5	(1)
9	0	(1)

(b) Find the median and interquartile range of the marks of the male students. (3)

An outlier is a mark 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.



