1. The stem and leaf diagram gives information about the volume, in millilitres, of the wine in 15 glasses.

```
1 | 1  5  7
2 | 0  1  2  3  5  6  8
3 | 1  5  6  8
4 | 2
```
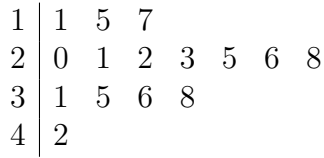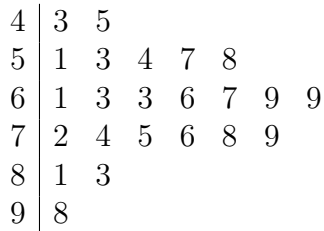
Key: 3|1 = 350 millilitres

(a) Work out the range.

. . . . ml

(b) Work out the interquartile range.

. . . . ml

2. Ms Davies timed how long it took for her year 10 class to get out and open their planners. The stem and leaf diagram shows the data for her 23 students.

```
4 | 3  5
5 | 1  3  4  7  8
6 | 1  3  3  6  7  9  9
7 | 2  4  5  6  8  9
8 | 1  3
9 | 8
```

Key: 7|2 = 7.2 seconds

(a) Work out the median.

. . . . seconds

(b) Work out the interquartile range.

. . . . seconds

3. Seyda has a summer job at a restaurant doing valet parking.

She records the estimated values of the 27 cars she parks one night.

The stem and leaf diagram gives information about the values, of the cars.

```
0 | 3  5
1 | 0  1  2  3  5  8
2 | 2  3  5  6  7  8  9
3 | 1  4  8  8
4 | 0  2  3  7  7
5 | 5  8
6 | 7
```
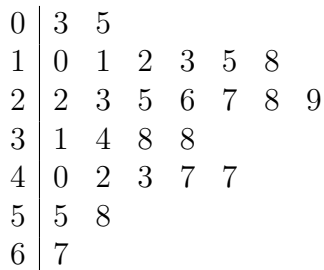
Key: 3|8 = £38 000

(a) Work out the lower quartile.   £. . . . .

(b) Work out the upper quartile.   £. . . . .

Answers:

1a) 290 ml   3b) 150 ml   2 a) 6.7 seconds b) 1.9 seconds   3 a) £15 000 b) £42 000