1. The stem and leaf shows the strokes of 19 new golf players on a 36 par practice course.

   {The strokes are the number of times the player hits the ball when playing}

   {36 par means that a good player would need 36 strokes to complete the course.}

   ```
   3 | 9
   4 | 1  3  6  7  7  8  9
   5 | 0  1  3  7  8
   6 | 2  5  7
   7 | 3  7
   8 | 1
   ```

   Key: 8|1 = 81 strokes

   (a) Write down the mode.

   (a) . . . .

   (b) Work out the range.

   (b) . . . .

   (c) Work out the median.

   (c) . . . .

   One of the players is chosen, at random

   (d) Work out the probability that this player took over 65 strokes.

   (d) . . . .

2. Roza collected some information about the diameter of 21 allium flowers.

   This information is shown in the stem and leaf diagram.

   ```
   4 | 5  5  5
   5 | 4  6  7  9
   6 | 0  1  1  2  6  9
   7 | 1  2  3  8
   8 | 1  2  5
   9 | 3
   ```

   Key: 7|2 = 72 mm

   (a) Write down the median.

   . . . . mm

   (b) Write down the mode.

   . . . . mm

   (c) Work out the range.

   . . . . mm
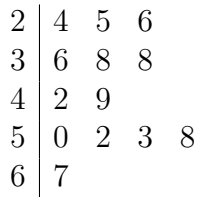
   Roza picks one of the flowers at random.

   (d) Work out the probability picks a flower with a diameter less than 55 mm.

   (d) . . . .

3. The stem and leaf diagram shows some data about an egg and spoon race.

   The times for the 13 contestants to complete the race are given in seconds.

```
2 | 4  5  6
3 | 6  8  8
4 | 2  9              Key: 6| 7 = 67 seconds
5 | 0  2  3  8
6 | 7
```

   (a) Write down out the median.

   .... seconds

   (b) Write down out the mode.

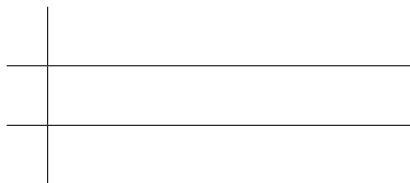   .... seconds

4. Florian has 21 chickens.

   He collected and weighed, the eggs from his chickens yesterday.

   Here are the weights, in grams, of the 19 eggs he collected.

63	72	82	60	73	70	68	57	78
49	75	61	65	71	54	75	57	70	80

   (a) Show this information in an ordered stem and leaf diagram.

   Key:

   (b) Work out the range.

   .... grams

   Answers

   1. (a) 47 (b) 42 (c) 51 (d) $\frac{4}{19}$

   2. (a) 62 (b) 45 (c) 48 (d) $\frac{6}{19}$

   3. (a) 42 (b) 36

   4.(a) See the stem and leaf to the right

   (a) must have a key (b) 33

```
4 | 9
5 | 4, 7, 7
6 | 0, 1, 3, 5, 8
7 | 0, 0, 1, 2, 3, 5, 5, 8
8 | 0, 2
```