Q1. Jess wants to know the number of people who live in her street
She carries out a survey.

Which **two** words describe the data she collects?
Circle your answers.

Primary   Secondary   Discrete   Continuous

(Total 3 marks)

Q2. Andrew is planning a survey about his local library.
Here is one of his questions with a response section.

How many times do you go to the library?

1   2   3   5 or more

☐   ☐   ☐   ☐

(a)   Give **one** criticism of the **question**.

....

....

(1)

(b)   Give **two** criticisms of the **response** section.

Criticism 1 ....

....

Criticism 2 ....

....

(2)
(Total 3 marks)

Q3. Decide whether each of these sets of data is discrete or continuous.

Tick the correct box.

(a)   The heights of people.

☐ Discrete   ☐ Continuous

(1)

(b)   The number of coins in a bag.

☐ Discrete   ☐ Continuous

(1)

(c)   The weights of bicycles.

☐ Discrete   ☐ Continuous

(1)

(d)   The shoe sizes of women.

☐ Discrete   ☐ Continuous

(1)
(Total 4 marks)

Q4. A company makes bags of toffees.

The company checks that the bags contain 50 toffees.

(a)   The number of toffees in a sample of 11 bags is

    51   50   51   51   52   43   50   50   51   51   50

(i)   Write down the mode.

    Answer ....

(1)

(ii)   Work out the median.
You **must** show your working.

    ....

    ....

    Answer ....

(2)

(iii)   Work out the mean.

    ....

    ....

    Answer ....

(3)

(b)   The company claims there are 50 toffees in a bag.

(i)   Give a reason why this claim seems fair.

....

....

(1)

(ii)   Give a reason why this claim seems unfair.

....

....

(1)

(c)   The company uses the first 11 bags produced each Monday to check the contents.

State **two** ways this method of sampling can be improved.

1 ....

....

2 ....

....

(2)
(Total 10 marks)