# GCSE Statistics: Grade 2

Foundation | 8 questions, 30 marks

**GCSE Statistics practice**

**Name:** _____ **Date:** _____ **Score:** _____ **/ 30**

## 1 DISCRETE AND CONTINUOUS DATA

A vet records these four things about each dog she sees.

- the mass of the dog, in kg
- the number of teeth the dog has
- the length of the dog's tail, in cm
- the number of visits the dog has made this year

a. Write down the two things that are discrete data.

b. Explain why the mass of a dog is continuous data.

(3 marks)

## 2 PRIMARY AND SECONDARY DATA

Kwame wants to find out how the pupils at his school travel to school. He thinks of two ways to get data.

**Method A**: give a questionnaire to pupils at his school.
**Method B**: use a table on a government website showing how pupils in England travel to school.

a. Write down the method that gives primary data.

b. Give one advantage of using secondary data.

c. Give one reason why the data from Method B may not be suitable for Kwame.

(3 marks)


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**3** **MEAN FROM A LIST**

Here are the numbers of text messages sent by six friends in one day.

14 9 22 17 11 23

a. Work out the mean number of text messages.

b. A seventh friend sent 30 text messages on the same day.
Work out the mean for all seven friends.

(4 marks)

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**4** **TWO-WAY TABLES**

60 pupils in Year 9 each choose one activity for a school trip. The two-way table shows some information about their choices.

| | Climbing | Kayaking | Archery | Total |
|---|---|---|---|---|
| Boys | 12 | | 7 | 28 |
| Girls | | 14 | | |
| Total | 20 | | | 60 |

a. Complete the two-way table.

b. Write down the activity that was chosen by the most girls.

(4 marks)

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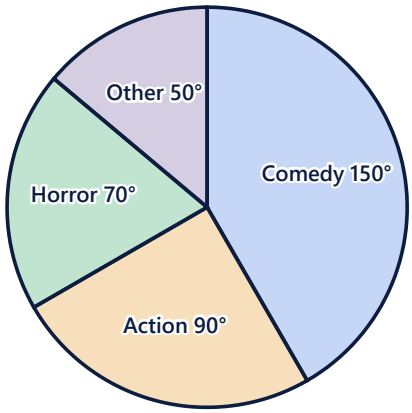
**5** **READING PIE CHARTS**

72 people were asked to name their favourite type of film. The pie chart shows the results.

a. Write down the type of film that is the mode.

b. What fraction of the people chose Action?

c. Work out the number of people who chose Horror.




(4 marks)


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**6** **LINE GRAPHS**

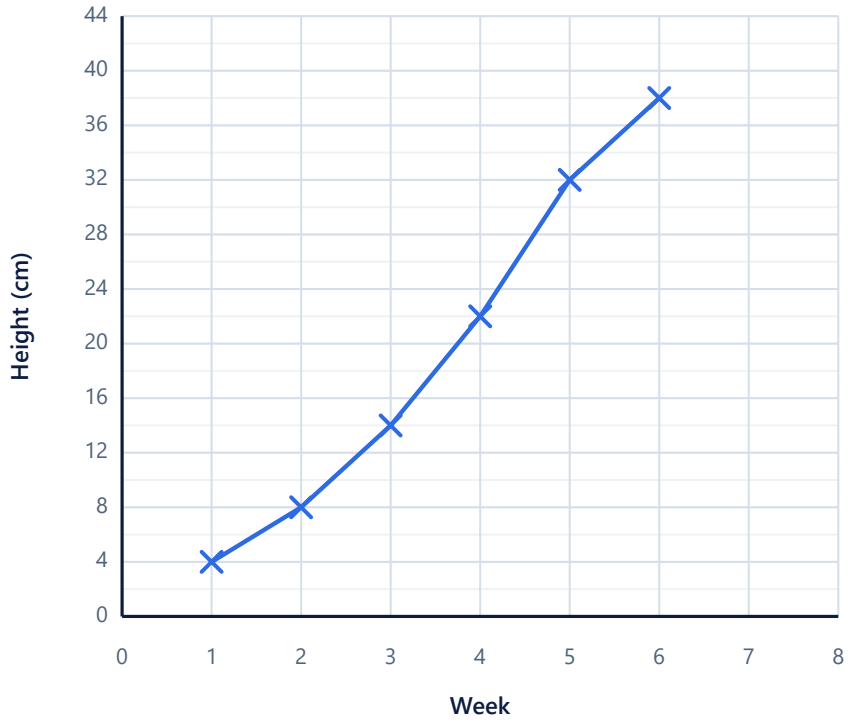
Farid measures the height of a sunflower at the end of each week. The line graph shows his results for the first 6 weeks.

a. Write down the height of the sunflower at the end of week 3.

b. Between which two weeks did the sunflower grow the most?

c. At the end of week 7 the height was 42 cm. Plot this point and complete the line graph.

d. Describe how the growth of the sunflower changed after week 5.




(4 marks)


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**7** **PROBABILITY OF A SINGLE EVENT**

A jar contains 20 sweets. 8 are strawberry, 7 are lemon and 5 are mint.

Aisha takes one sweet from the jar at random.

a. Write down the probability that the sweet is lemon.

b. Work out the probability that the sweet is **not** mint. Give your answer as a fraction in its simplest form.

c. Write down the probability that the sweet is orange.

(4 marks)

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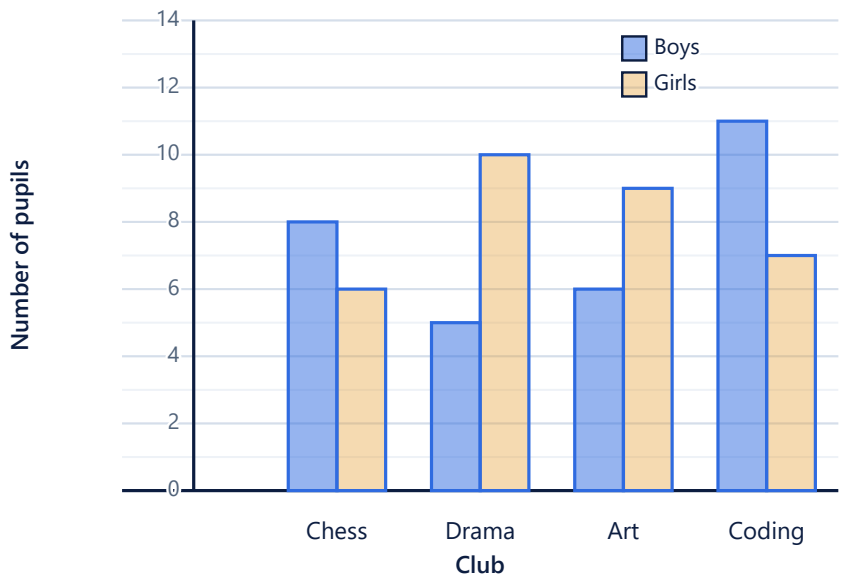
**8** **DUAL AND COMPOSITE BAR CHARTS**

The dual bar chart shows the numbers of boys and girls who go to four after-school clubs.

a. How many girls go to Drama?

b. Write down the two clubs that have more boys than girls.

c. Sami says, "In total, more boys than girls go to these clubs."
Is Sami correct? You must show your working.




(4 marks)

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End of questions | Total 30 marks


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