GCSE Statistics: Grade 1

Foundation | 8 questions, 31 marks

GCSE Statistics practice

Name: _____ **Date:** _____ **Score:** _____ **/ 31**

1 **QUALITATIVE AND QUANTITATIVE DATA**

Priya does a survey of the cars in a country park car park. For each car she writes down

- the colour of the car
- the number of people in the car
- the make of the car

a. Write down which one of these is quantitative data.

b. Give a reason for your answer.

c. Write down one other piece of quantitative data that Priya could collect about each car. (3 marks)

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2 **TALLY CHARTS AND FREQUENCY TABLES**

Callum records the type of each bird that visits his garden one morning.

Robin, Sparrow, Blackbird, Sparrow, Pigeon,
Sparrow, Robin, Blackbird, Sparrow, Pigeon,
Sparrow, Blackbird, Robin, Sparrow, Sparrow,
Blackbird, Sparrow, Robin, Pigeon, Blackbird

a. Complete the tally chart and frequency table.

b. Write down the type of bird that Callum saw the most.

c. How many more sparrows than pigeons did Callum see?

Bird	Tally	Frequency
Robin		
Sparrow		
Blackbird		
Pigeon		

(4 marks)

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3 **PICTOGRAMS**

The pictogram shows the number of books borrowed from a school library on four days.

a. How many books were borrowed on Tuesday?

b. How many more books were borrowed on Wednesday than on Thursday?

c. On Friday, 14 books were borrowed. Complete the pictogram.

d. Work out the total number of books borrowed in the five days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key:  = 4 books

(4 marks)

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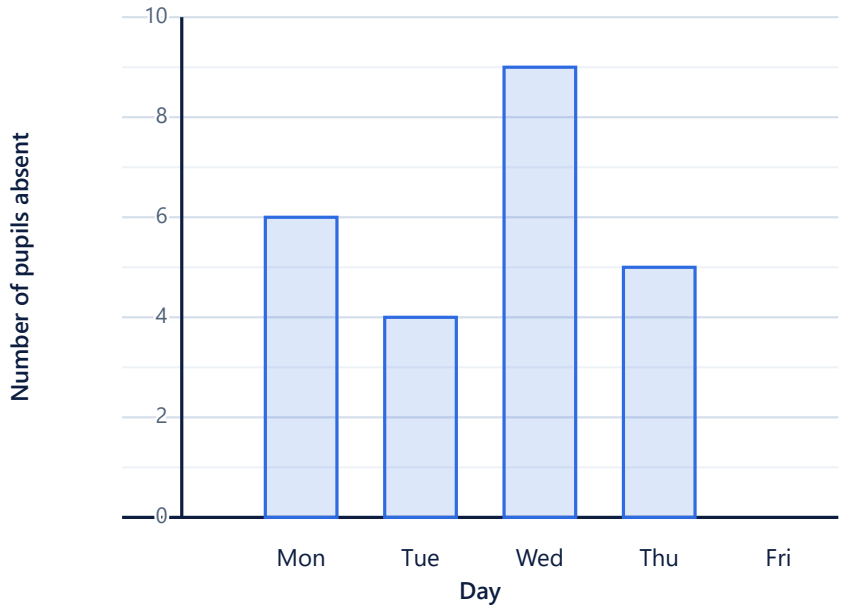
4 **BAR CHARTS**

The bar chart shows the number of pupils in Year 7 who were absent from school on each of four days.

a. How many pupils were absent on Wednesday?

b. On Friday, 7 pupils were absent. Draw this bar on the bar chart.

c. Tom says, "More than half of the absences in the week were on Wednesday and Friday."
Is Tom correct? You must show your working.



(4 marks)

5 **MODE AND RANGE**

Here are the numbers of goals scored by a netball team in each of 9 matches.

12 15 9 15 20 11 15 18 9

a. Write down the mode.

b. Work out the range.

c. A second team has a range of 4 goals.
Which team scored a more consistent number of goals? Give a reason for your answer.

(4 marks)

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6 **MEDIAN**

Seven people wait for a bus. Here are the times, in minutes, that they wait.

8 3 12 5 9 4 7

a. Work out the median time.

b. An eighth person waits for 10 minutes.
Work out the median time for all eight people.

(4 marks)

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7 **PROBABILITY WORDS AND THE PROBABILITY SCALE**

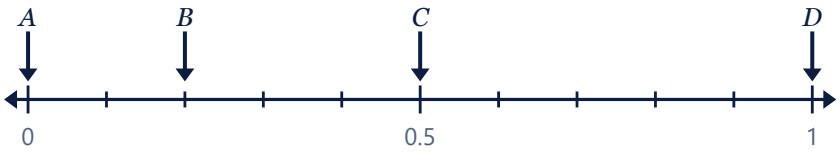
The probability scale shows the probabilities of four events, A, B, C and D.

a. Which letter shows the probability that a fair coin lands on heads?

b. Which letter shows the probability of rolling a 7 on an ordinary dice numbered 1 to 6?

c. Choose the best word from **impossible, unlikely, evens, likely, certain** to describe the probability of event B.

d. It is likely to rain in Leeds tomorrow. Mark the probability of this on the scale with an arrow. Label it E.



(4 marks)

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8 **READING DATA FROM TABLES**

The table shows the total rainfall and the total hours of sunshine in a town for each of five months.

Month	Rainfall (mm)	Sunshine (hours)
April	52	155
May	48	190
June	60	205
July	45	212
August	71	180

a. Write down the month with the most rainfall.

b. How many more hours of sunshine were there in July than in April?

c. Work out the total rainfall in May and June.

d. Zara says, "The month with the most sunshine was also the month with the least rainfall."
Is Zara correct? Give a reason for your answer.

(4 marks)

End of questions | Total 31 marks

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