GCSE Maths Foundation - Unit 3 - Data

Hannah asked some students to vote on the best name for a shark. Here are the results:

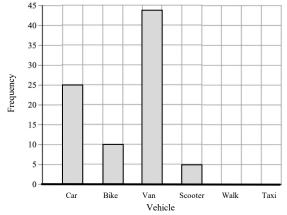
> Bruce Pollv Sandra Pollv Polly Steve Steve Polly Sandra Finley Finley Polly Finley Polly Finley Sandra Bruce Sandra Polly Polly

(a) Complete the frequency table

Name	Tally	Frequency
Bruce		
Polly		
Finley		
Sandra		
Steve		

(b) Write down the name that is the mode

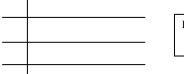
The bar chart shows information about the ways in which 100 people travel to work.



The number of people who walk is three times the number of people who travel by taxi. Complete the bar chart.

Below are some ages (in months) of a group of hamsters. Draw a stem and leaf diagram for the data.

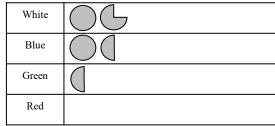
12 21 6 9 14 31 10 7 25 18 14

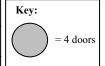


Key:

What is the median age of the hamsters?

There are only white, blue, green or red colours of front door on a street. There is a total of 24 doors. Complete the pictogram.

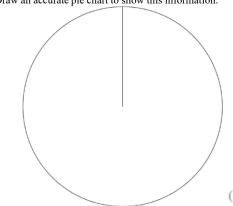




40 people were asked their favourite flavour of ice cream. The results are shown in the table.

Flavour	Frequency
Vanilla	18
Chocolate	12
Strawberry	10

Draw an accurate pie chart to show this information.

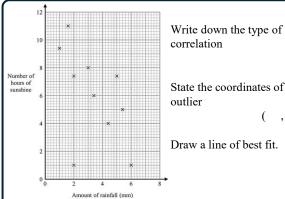


NAME:





The table shows information about the ages of some kittens in months. Draw a frequency polygon.	Age (months)	Freque- ncy
30	$0 \le m \le 5$	7
30	5< m ≤ 10	18
20	$10 < m \le 15$	25
20	$15 \le m \le 20$	10
	20 < m ≤ 25	2
10		
0 5 10 15 20	0 25	

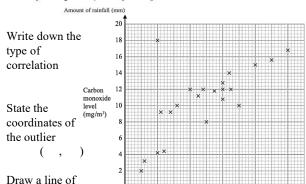


best fit.

State the coordinates of the outlier

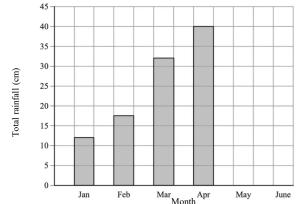
Draw a line of best fit.

Volume of traffic (number of cars)



GCSF Maths Foundation - Unit 3 - Data Miss Bailey asked 24 students where they each wanted to go on a school trip. castle farm castle farm farm farm castle farm castle castle castle farm castle museum farm castle museum museum museum castle castle museum (a) Complete the frequency table. Tally Place Frequency castle museum

The bar chart shows information about the total rainfall each month for four months in a city.



- (a) In May, the total rainfall was 35cm. In June, the total rainfall was 20cm.

 Use this information to complete the bar chart.
- (b) Rupa thinks Feb had rainfall of 15.5cm. Explain why Rupa is wrong

The stem and leaf diagram below gives information about the ages of people in a social club.

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

Key: 4|2 represents 42 years

Find the range of these ages.

(b) Write down the place that is the mode.

.... years (2)

There are only apple, cherry pear and plum trees in an orchard. There is a total of 30 trees. Complete the pictogram.

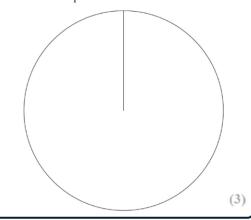
Apple	
Cherry	
Pear	
Plum	

Key:	
	represents 4 trees

Year 9 students were asked to choose one language to study. The table shows information about their choices.

Language	Number of students	
French	56	
Spanish	40	
German	24	

Draw an accurate pie chart to show this information.



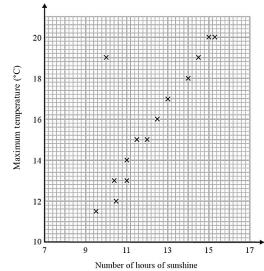
NAME:





The table shows information about daily rainfall in a town	Rainfall (R mm)	Frequency
for 60 days.	0 ≤ R < 5	8
Draw a frequency polygon.	5 ≤ R < 10	24
	10 ≤ R < 15	13
	15 ≤ R < 20	11
20	20 ≤ R < 25	4
10		
0 5 10 15	20 2	(2)

The scatter graph shows information about the maximum temperature and the number of hours of sunshine in fourteen British towns on one day.



- (a) One of the points is an outlier. Write down the coordinates of this point.
- (b) For all other points, write down the type of correlation.
- (c) On the same day in another British town, the maximum temperature was 16.4°C. Estimate the number of hours of sunshine in this town on this day.