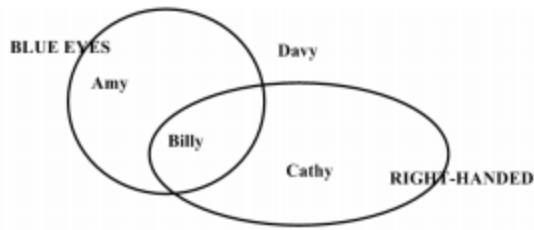




- I can construct and interpret Venn and Carroll diagrams  
Which pupil has blue eyes and is left-handed?



4

- Plot a line graph to show the height above ground of a cricket ball after it is hit straight up into the air as shown in the table below:

Time (sec)	0	1	2	3	4	5	6
Height	1	16	21	22	21	17	0

- Melissa is investigating the lengths of worms in her garden and the results she finds on one particular day are in the table below. Put the results into a grouped frequency table.

83	71	84	72	89	71	60	75	78
68	64	69	71	82	79	77	81	64
76	77	56	61	72	78	66	75	66
62	88	68	66	74	80	59	74	64

- Find the mode and range of the set of numbers here: 15, 17, 8, 9, 15, 7, 21, 6, 12
- Find the mean and median of the set of numbers here: 15, 17, 23, 9, 11, 27, 31, 6, 12
- Construct a frequency table for the data that has been collected here:

Bike	Bus	Car	Walk	Bike	Bike	Car	Bus	Bike
Car	Bike	Bus	Bike	Car	Car	Bike	Bike	Car
Bus	Walk	Bus	Bus	Walk	Car	Bus	Bike	Car

5

- The mean of three numbers is 16 and their range is 10. If their median is 18, what are the three numbers?
- Calculate the mean and range for the 'burn-time' (in hours) of a torch when using two types of batteries as shown below. Use your results to justify which type of battery you would use.

Ever-Steady	6	7.5	5.5	5.25	4.75	5.75	6.5	5.5
Ever-Go	7	6.5	2.5	7.75	8.25	7.5	8	8.5

- Helen needs an average mark of 70 over four modules in order to pass her exam. Her current marks are 78, 56 and 64. What is the minimum mark she must get in her final module in order to pass?

- Look at the pie chart below, which represents the answers in a survey from 36 pupils.
- How many pupils are one of three children in a family?
  - Roughly what percentage of pupils are in a family with four children?

Number of children in family



- I can compare 2 sets of data using the range and one of the median, mode or mean  
Fred and Wilma play a game. Fred's scores are 5, 9, 1, 2, 9. Wilma's scores are 5, 6, 6, 7, 5. Compare their results.

- I understand the mode, median, mean and range  
Four test scores are 12, 17, x and 13 (a) find a value for x so that the list has a median of 14 (b) find a value for x so that the list has a mean of 13

6

- Construct a frequency diagram for the data in the grouped frequency table here:

Length (mm)	Frequency
$55 \leq h < 60$	2
$60 \leq h < 65$	7
$65 \leq h < 70$	15
$70 \leq h < 75$	11
$75 \leq h < 80$	10
$80 \leq h < 85$	6
$85 \leq h < 90$	3

- I can calculate the mean from a frequency table

Score	0	1	2	3
Frequency	7	3	6	2

Calculate the mean score from the data in the table

- I can construct and interpret line graphs
- I understand discrete and continuous data
- I can construct and interpret two-way tables

	Boys	Girls
Blue eyes	9	6
Brown eyes	6	4

- What percentage of the pupils shown in the table are girls with brown eyes?
- What fraction of the boys have blue eyes?

7

- I can plan data collection considering source, sample size and accuracy
- I can use frequency tables of grouped data to estimate the median

Score	0-2	3-5	6-8	9-10
Frequency	2	4	5	3

Estimate the median score

- I can use frequency tables of grouped data to estimate the mean
- Specify a hypothesis and test it by designing an appropriate survey sheet or experiment that takes bias into account.
- Find modal class of grouped data.
- Understand and use relative frequency.

8

- I can select and use suitable graphical representations for the results of a statistical enquiry.
- Select the most appropriate average for conclusions of an enquiry using comparison of averages to justify any conclusions made.
- Understand and calculate a moving average, also use moving averages to make predictions

