

Graphs, tables and charts, (foundation and higher)

Grouped frequency table – a table with data in classes

Inequality – eg $30 < y \leq 31$ (y is greater than 30 but less than or equal to 31)

Discrete data – can only take particular values, usually whole numbers

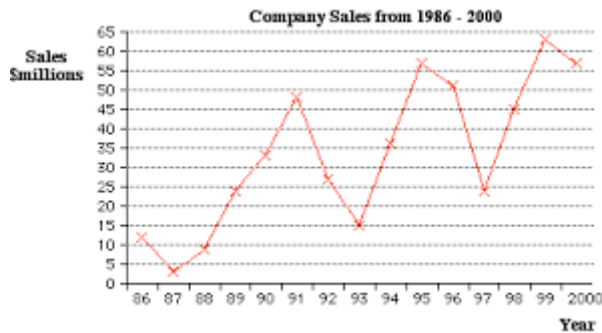
Continuous data – data that is measured and can take any value, eg length and time

Correlation – a measure of relationship between two sets of data

Interpolation – Using a line of best fit to predict data values within the range

Extrapolation – Using a line of best fit to predict data values outside of the range

Time series



Two way tables

	Like Skateboards	Do Not Like Skateboards	Totals
Like Snowmobiles	80	25	105
Do not like Snowmobiles	45	10	55
Totals	125	35	160

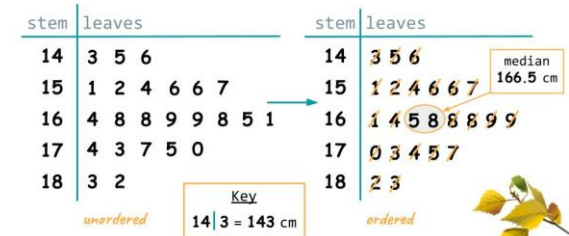
MathBits.com



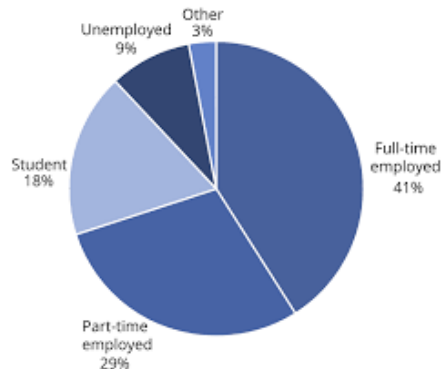
STEM AND LEAF DIAGRAMS

Twenty four students recorded their heights to the nearest centimetre:

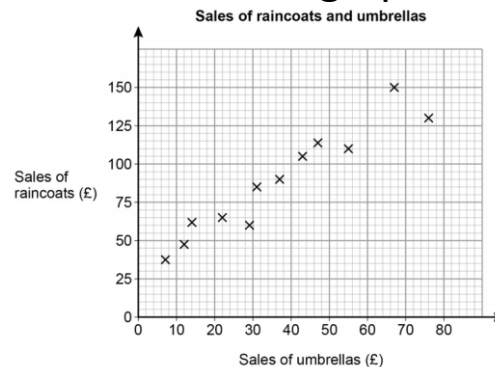
174 151 143 173 164 152 168 154
168 177 183 169 156 169 156 145
168 165 175 182 146 161 170 157



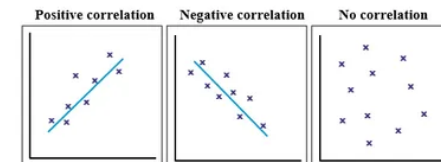
Pie Charts



Scatter graphs



Correlation



Positive correlation
The points lie close to a straight line, which has a positive gradient. This shows that as one variable increases the other increases.

Negative correlation
The points lie close to a straight line, which has a negative gradient. This shows that as one variable increases, the other decreases.

No correlation
There is no pattern to the points. This shows that there is no connection between the two variables.