## REPRESENTATIONS...

## What do I need to be able to do?

By the end of this unit you should be able to:

- Draw and interpret scatter graphs
- Describe correlation and relationships.
- dentify different types of non-Inear relationships.
- Desian and complete an ungrouped frequency table.
1-Read and interpret grouped tables (discrete and contincous data)
I- Represent data in two way tables.


## Keywords

Variable: a quantity that may change within the context of the problem.
Relationship: the link between two variables (items). Eg Between sunny days and ice cream sales Correlation: the mathematical definition for the type of relationship.
I Origin: where two axes meet on a graph
I Line of best fit: a straight line on a graph that represents the data on a scatter graph.
Outier: a point that lies outside the trend of graph.
Quantitative: numerical data
Qualitative: descriptive information, colours, genders, names, emotions etc.
I Continuous: quantiative data that has an infinite number of possible values within its range.
I Discrete: quantiative or qualitative data that only takes certain values.
Frequency: the number of times a particular data value occurs.


Ungrouped Data
IThe number of times an
event happened 2 people had 0 sibings. This means the
are 0 siblings to be counted here

The table shows the number of siblings students have. The answers were
$3,1,2,2,0,3,4,1,1,2,0,2$
2 people had 0 siblings. This means ther
+
2 people have 3 siblings so there are 6
sibings in total

## Grouped Data

better to group it This is so it is easier to look for a trend $F$ a | groups of equal size to make comparison more valid and spread the groups out from the smallest to the largest value.

|  | Cost of TV ( $£$ ) | Tally | Frequency |
| :---: | :---: | :---: | :---: |
|  | 101-150 | Tak. 11 | 7 |
|  | 151-200 | Trac. Tha 1 | 11 |
|  | 201-250 | Trus. | 5 |
|  | 251-300 | 111 | 3 |

We do not know the exact value of each item in a group - so an estimate would be bused to calculate the overall total (Midpoint)
Continuous Data
Contrinous Data
To make sure all values are
ncloded nequalties represent
the subgroups



[^0]but 8 items in total $=\frac{3}{8}$

Intereaving: Use your fraction, decimal percentage equivalence knowledge


[^0]:    To find a fraction
    eg What fraction of the items are red? 3 red items

