

Two Way Tables

A two-way table is a statistical diagram that is used to present two sets of data simultaneously.

We need to be able to *interpret* data from a two-way table and *complete* missing data from a two-way table.

When interpreting data, we must look at the column and row title for each value.

When completing missing data from a two-way table we must complete each row or column which has only one piece of data missing. If there is more than one piece of data missing, we cannot work it out straight away and must do a different missing value first.

A two-way table can be used for:

- ✓ Qualitative Data
- ✓ Discrete Data
- ✓ Continuous Data (if presented in groups)

Look at the following two way table. Fill in the missing numerical values and then fill in the blanks of information below

Birth Month		Year 7	Year 8	Year 9	Total
Jan - June		124		138	
July - Dec		168	152		465
Total			299		

- There are _____ year 7 students whose birthday is in Jan-June
- There are _____ year 8 students whose birthday is in Jan-June
- There are _____ year 9 students whose birthday is in Jan-June
- There are _____ year 7 students whose birthday is in July-Dec
- There are _____ year 8 students whose birthday is in July-Dec
- There are _____ year 9 students whose birthday is in July-Dec
- There are _____ students in year 7
- There are _____ students in year 8
- There are _____ students in year 9
- There are _____ students whose birthday is in Jan-June
- There are _____ students whose birthday is in July-Dec
- There are _____ students altogether in Key Stage 3
- The year group with the most students is _____
- The year group with the least students is _____
- In year 7 more people have their birthday is _____
- In year 8 more people have their birthday is _____
- In year 9 more people have their birthday is _____

Solutions

Birth Month		Year 7	Year 8	Year 9	Total
Jan - June		124	147	138	409
July - Dec		168	152	145	465
Total		292	299	283	874

- There are 124 year 7 students whose birthday is in Jan-June
- There are 147 year 8 students whose birthday is in Jan-June
- There are 138 year 9 students whose birthday is in Jan-June
- There are 168 year 7 students whose birthday is in July-Dec
- There are 152 year 8 students whose birthday is in July-Dec
- There are 145 year 9 students whose birthday is in July-Dec
- There are 292 students in year 7
- There are 299 students in year 8
- There are 283 students in year 9
- There are 409 students whose birthday is in Jan-June
- There are 465 students whose birthday is in July-Dec
- There are 874 students altogether in Key Stage 3
- The year group with the most students is year 8
- The year group with the least students is year 9
- In year 7 more people have their birthday is July-Dec
- In year 8 more people have their birthday is July-Dec
- In year 9 more people have their birthday is July-Dec