



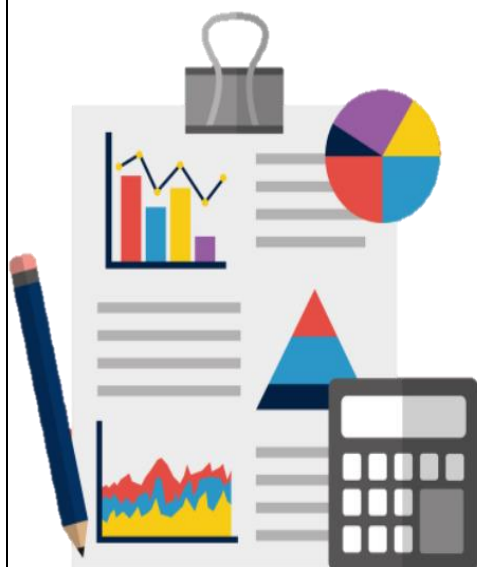
### Overview

**In our unit on statistics** we learn to:

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read/ interpret tables
- Two way tables
- Timetables

**This learning is important because...**

...it helps us to read and understand information. We can make use of information to answer important questions. It also helps us to think critically to solve problems.

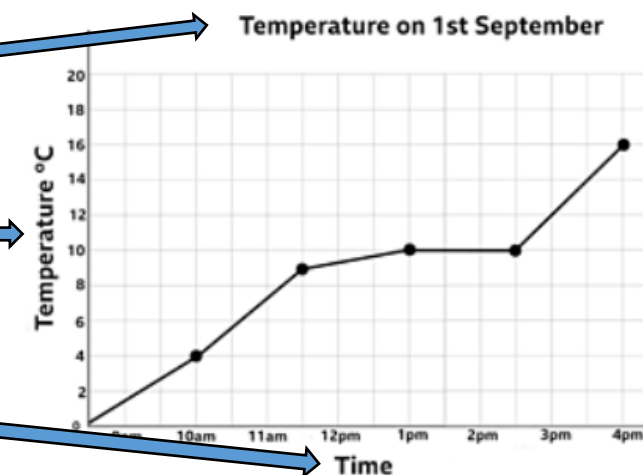


### Line Graphs

Line graphs use a line to connect individual data points.

Line graphs are particularly useful for comparing and showing data change over time.

- The title of the line graph shows us what information is being presented.
- The y-axis runs up and down. In this line graph, the y-axis shows us the temperature in °C. Every 2°C are labelled.
- The x-axis runs across. In this line graph, the x-axis shows us the time. Every hour is labelled.



To find the temperature at 11.30am, we follow the x-axis across to 11.30am (the point in between 11am and 12pm). When we reach the line, we scan across to the y-axis to find the temperature. The temperature was 9°C at 11.30am (half-way in between 9°C and 10°C).

### Tables

#### Reading and Understanding Tables

- In order to understand the data in tables, we need to read the title and headings of the table carefully.
- When looking at a piece of information, we need to ensure that we carefully read the headings that it falls under. E.g. for someone who is under 18, looking for a standard season ticket in a gold seating zone, they would need to look for the highlighted box.

Football Club Season Ticket Prices

	TICKET TYPE	EARLY BIRD	STANDARD
PLATINUM SEATING ZONES	ADULT	£410	£431
	65+	£310	£326
	YOUTH & 75+	£210	£221
	U18	£165	£173
GOLD SEATING ZONES	U12	£99	£104
	ADULT	£385	£404
	65+	£285	£299
	YOUTH & 75+	£195	£205
	U18	£140	£147
	U12	£75	£79

#### Completing Tables

- We can complete tables using given information.
- e.g. To find how many Year 9s voted for basketball, subtract football from Year 9 total.
- Once Year 9 basketball and Year 10 football have been inputted, we can find the totals by adding information together.

Year 9 and Year 10 Favourite Sports

	Football	Basketball	Total
Year 9	45		102
Year 10		32	101
Total			203

### Timetables

- Timetables are tables that show when particular activities or events will happen.
- Timetables are often used to show the departure and arrival times of trains, buses and planes.

The different buses

	Bus A	Bus B	Bus C	Bus D
Market	08:00	10:20	12:20	16:55
Cinema	08:10	10:32	12:26	17:10
Hospital	08:25	10:48	12:42	17:33
School	08:47	11:10	13:11	18:01

The bus stops

- The bus timetable on the left shows the time at which the different buses depart from the bus stops.
- We need to look at both headings to make sure we catch the correct bus.
- E.g. if we want to catch Bus C from the hospital, we need to look at the different buses and the bus stops headings. This bus departs at 12.42.

### Key Vocabulary

Interpret    Timetable    Value    Predict    Table    Continuous    Discrete    X Axis    Y Axis    Scale    Survey    Tally    Represent