



## **Overview**



# **Statistics** we learn to:

-Read and interpret line graphs -Draw line graphs

-Use line graphs to solve problems

-Read/interpret tables -Read/interpret pie charts

-Pie Charts with Percentages -The mean -Circles

### 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.

# **Tables and Timetables**

**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.

#### **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.

Football Club Season Ticket Prices				
	TICKET TYPE	EARLY BIRD	STANDARD	
	ADULT	£410	£431	
PLATINUM	65+	£310	\$326	
	YOUTH & 75+	£210	\$221	
	U18	£165	\$ 173	
	U12	599	£104	
	ADULT	\$385	\$404	
GOLD	65+	£285	\$299	
SEATING	YOUTH & 75+	£195	£205	
ZONES	U18	£140	\$147	
	U12	£ 75	£ 79	

#### Year 9 and Year 10 Favourite Sports

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

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

s [	Market	08:00	10:20	12:20	16:55
stops	Cinema	08:10	10:32	12:26	17:10
pus	Hospital	08:25	10:48	12:42	17:33
The	School	08:47	11:10	13:11	18:01

-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.

# **KNOWLEDGE ORGANISER**

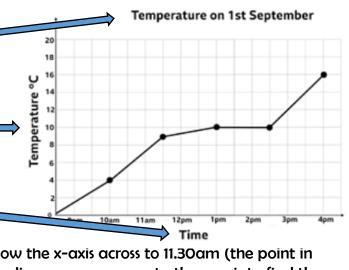
# **Line Graphs**

Line graphs use a line to connect individual data points.

Line graphs are particularly useful for comparing and showing data change over time. Data shown in line graphs is continuous.

-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.



Year 6

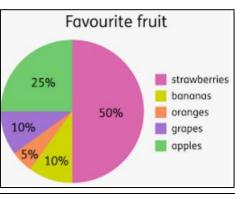
-The x-axis runs across. In this line graph, the x-axis shows us the time. Every hour is labelled.

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).

# **Pie Charts/ The**

-Pie charts show discrete data (data that can only certain values.

-Pie charts are circles divided into seaments. The size the segment shows the proportion of the total amou



-Percentages can added to show th proportion.

-Raw figures can calculated, e.a. if children were ask 50% = 25 children strawberries.

						Key Vocabul	ary			
Inte	erpret	Timetable	Value	Predict	Table	Continuous	Discrete	X Axis	Y Axis	Scale

e Mean				
be	- <u>The mean</u> is the average of a set of data.			
e of unt. be he	-To find the mean, add up all of the values to find the total. Divide the total by the number of values that you added together.			
be 50 eed, said	34 21 2 24 37 Total of values = 118 118 ÷ 5 (number of values) = 23.6 The mean average is 23.6			

Survey

Tally