
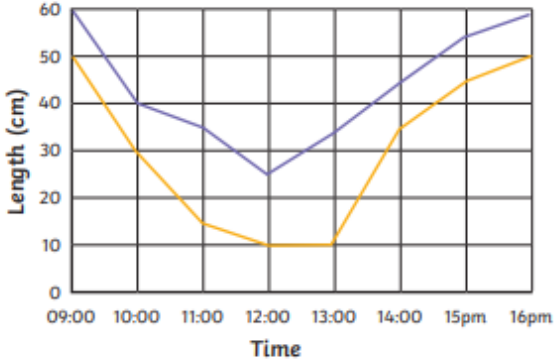



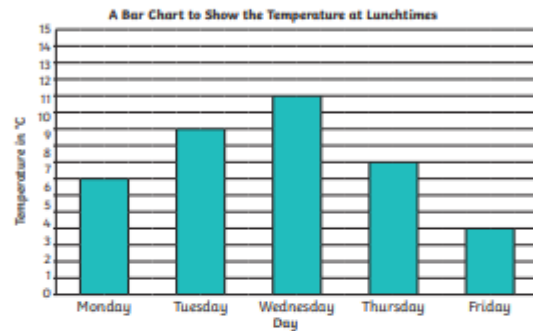
## Year 6 Statistics Knowledge Organiser.

Statistics		Knowledge Organiser
Key Vocabulary	Interpreting Data	Pie Charts
bar chart	Information can be show in tables, charts or graphs. Interpreting data simply means understanding or working out what is being shown by a table, graph or chart and being able to answer questions about that information.	Pie charts represent discrete data.  A circle is divided into segments, where each segment represents a data category. The size of each segment matches its proportion of the total amount.
pictogram		
frequency table		
tally chart		
pie chart	<b>Line Graph</b>	<p style="text-align: center;"><b>A pie chart to show children's favourite sports</b></p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p><b>Key</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: blue; margin-right: 5px;"></span> swimming</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; margin-right: 5px;"></span> netball</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> football</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: purple; margin-right: 5px;"></span> gymnastics</li> </ul> </div> </div> <p style="margin-top: 20px;">24 children were asked in total.</p> <p>Swimming = <math>\frac{1}{2}</math> so <math>\frac{1}{2}</math> of 24 = 12 children</p> <p>Netball = <math>\frac{1}{4}</math> so <math>\frac{1}{4}</math> of 24 = 6 children</p> <p>Football = <math>\frac{1}{8}</math> so <math>\frac{1}{8}</math> of 24 = 3 children</p> <p>Gymnastics = <math>\frac{1}{8}</math> so <math>\frac{1}{8}</math> of 24 = 3 children</p>
discrete data	Line graphs are used to show changes to a measurement over time.	
continuous data	Data shown in a line graph is continuous.	
line graph	Sets of points are joined together to make the line.	
sum	<p style="text-align: center;"><b>A line graph to show the length of shadows over time</b></p>  <p style="text-align: center;">Time</p>	
difference		
comparison		
interpret		
mean average		
		

## Statistics

### Bar Chart

A bar chart has a horizontal axis and a vertical axis. Bars show the data value of each category. There must be a gap between each bar. The scale of the bar chart is chosen based on the data range.



### Frequency Table

Eye Colour	Tally	Frequency
brown	##	6
blue	##	8
green		3
grey		4
hazel	##	5

Tally marks are used to help count things. Each vertical line represents one unit. The fifth tally mark goes down across the first four to make it easier to count.

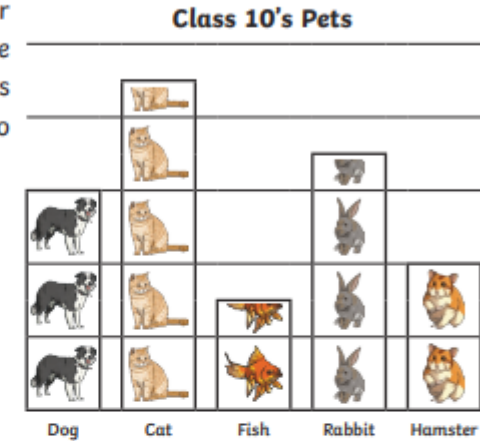
The frequency column is completed after all the data has been collected.

## Knowledge Organiser

### Pictogram

This graph uses pictures or symbols to represent the data. The pictogram uses one picture or symbol to represent a value.

= 4 Children



### Mean Average

The mean is the average of a set of data.

To find the mean or average, add up all of the values to find the total. Divide the total by the number of values that you added together. This will give you the mean.

12	15	10	8	15
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$$12 + 15 + 10 + 8 + 15 = 60$$

$$60 \div 5 = 12$$

The mean of this data is 12.