

Year 4 Statistics

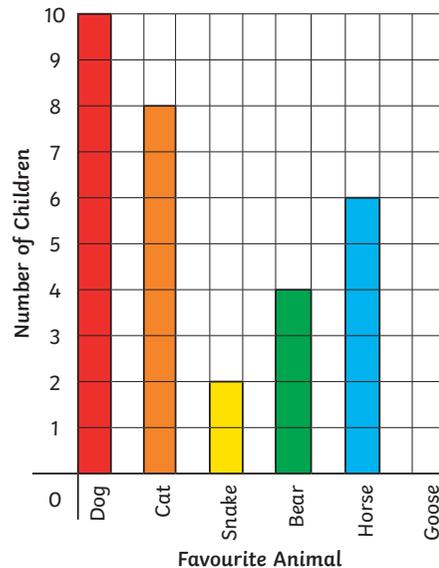
Bar Chart

A bar chart is used to clearly display results and information.

Types of items are shown on the x-axis, which is horizontal.

The number of items are shown on the y-axis, which is vertical.

One block represents one item. It is quicker to compare results using a block diagram than a table or tally chart.



Carroll Diagram

A Carroll diagram is a table used for sorting objects based on whether they do or do not meet two given criteria.

Carroll diagrams were invented by Lewis Carroll, the author of 'Alice in Wonderland'.

	Red	Not Red
Quadrilateral		
Not a Quadrilateral		

Table

A table is used to record information and collect results.

The information can then be used to make pictograms or block diagrams to display results clearly.

A table needs to have headings to show what you are measuring or recording.

Favourite Animal	Number of Children
Dog	10
Cat	8
Snake	2
Bear	4
Horse	6
Goose	0

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Tally Chart

A tally chart is used for counting how many of something you are recording.

1 tally mark shows you that there is 1 item.

4 tally marks with a diagonal line through them show you that there are 5 items.

In this example, the tally marks show how many children chose each of the animals as their favourite in a survey.

Making a tally chart is faster than writing out words or numbers.

Favourite Animal	Number of Children	Frequency
Dog		10
Cat		8
Snake		2
Bear		4
Horse		6
Goose		0

Pictogram

A pictogram uses pictures to represent data.

It is quicker and easier to interpret the results in a pictogram than in a table or tally chart.

Pictograms are set out in a similar way to bar charts, but instead of bars they use columns of pictures to show specific amounts.

Favourite Animal	Number of Children
Dog	
Cat	
Snake	
Bear	
Horse	
Goose	

 = 2 children

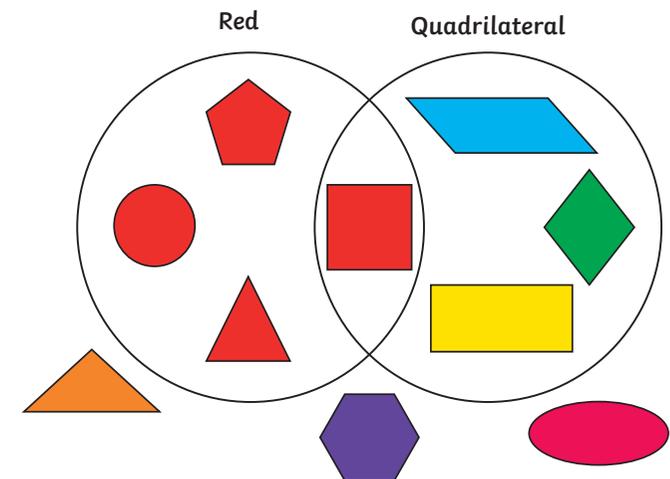
Venn Diagram

A Venn diagram is a diagram used to sort objects based on different criteria.

A Venn diagram is made up of two or more overlapping circles.

Objects placed in the section where the circles cross over meet both criteria.

Objects outside of the circles don't meet either set of criteria.



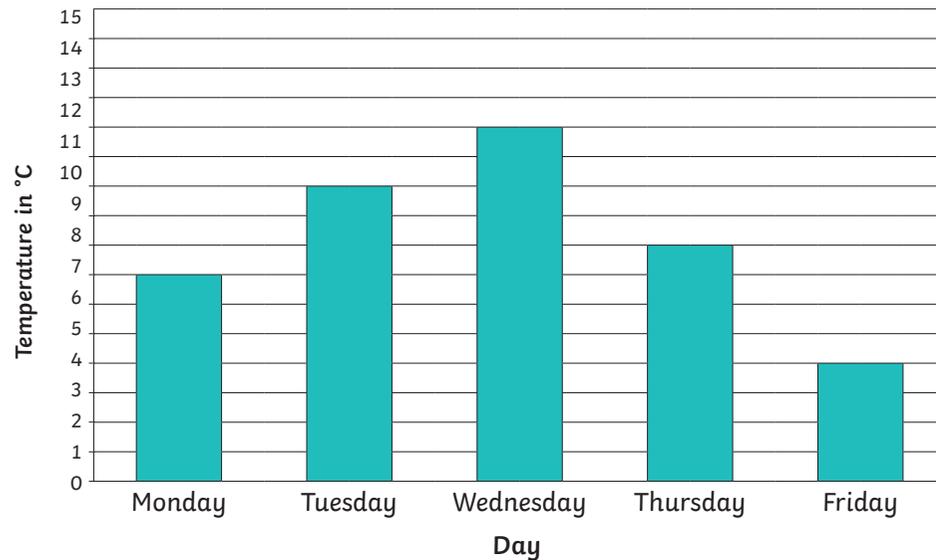
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Time Graph

Time graphs show the changing of data over time.

Here is a bar chart which shows the change in temperature over five days.

A Bar Chart to Show the Temperature at Lunchtimes



Here is a line graph which shows the change in temperature over twelve months.

A Line Graph to Show the Average Monthly Temperature in the Borneo Rainforest

