

Statistics

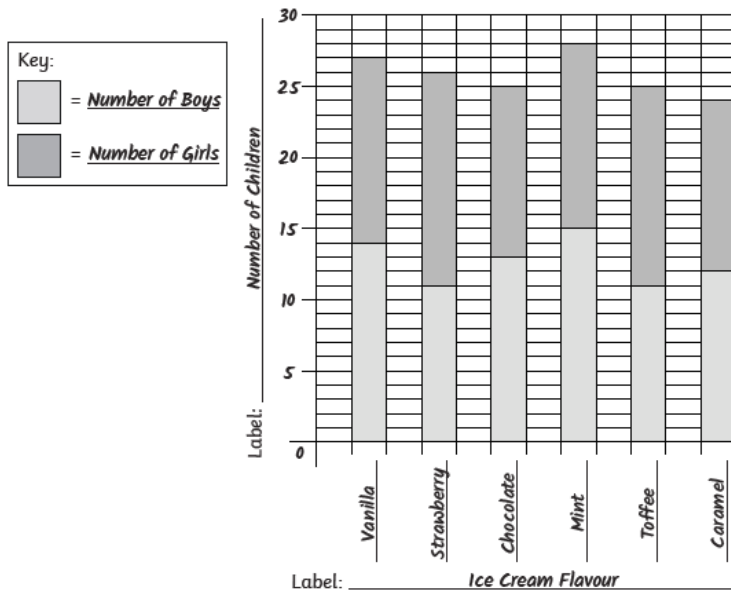
You know how to create a bar chart or a line graph.

Sometimes, people combine charts if they want to compare data:

If the data relates to the **same measurement** (number of people liking a certain flavor of ice cream), you can stack or group bar charts depending of what you want to show.

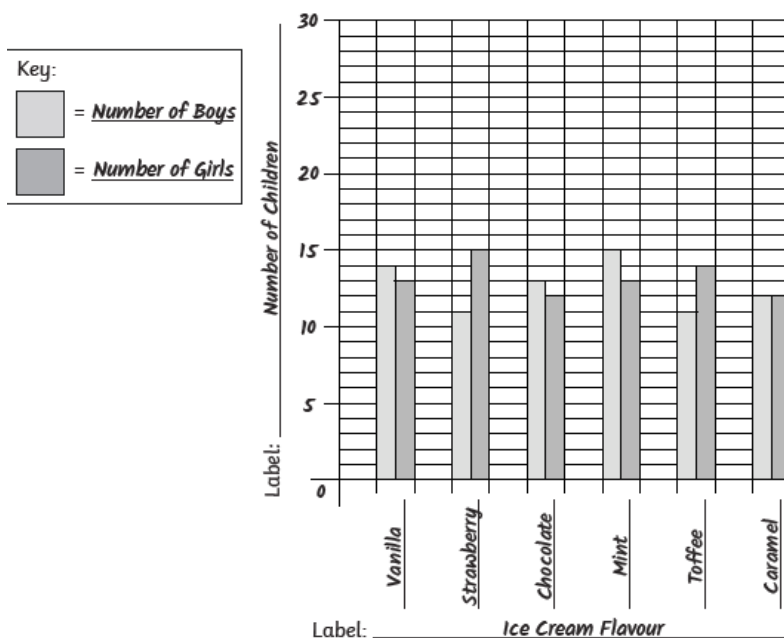
- **Stacking** as shown below emphasises the **total** number of children but you can also compare the proportion of boys and girls within that.

Title: *A Bar Chart to Show Class KS2's Favourite Ice Cream Flavours*



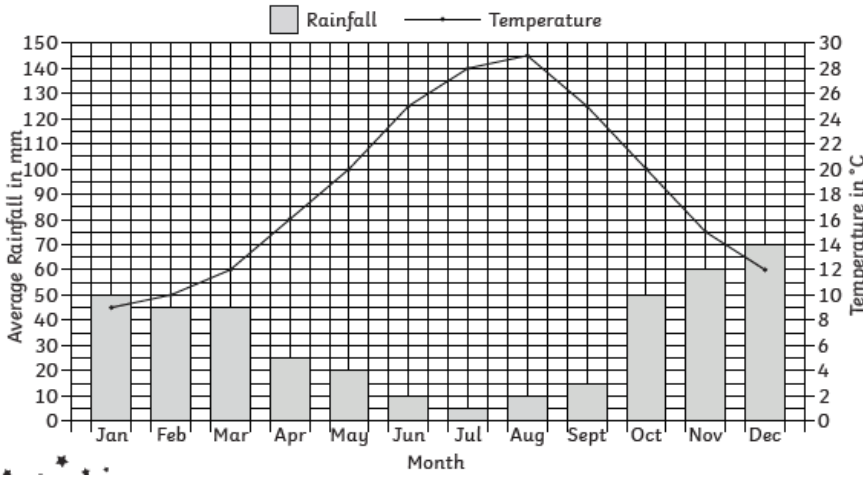
- **Grouping**, below has the data then sits side by side for **easy comparing**.

Title: *A Bar Chart to Show Class KS2's Favourite Ice Cream Flavours*



If the data relates to different measurements (temperature and rainfall), then different types of charts can be combined (lines and bars for example). They may use the same scale or as in the example below have two axis (rainfall on the left counting in 10s, temperature on the right counting in 2s)

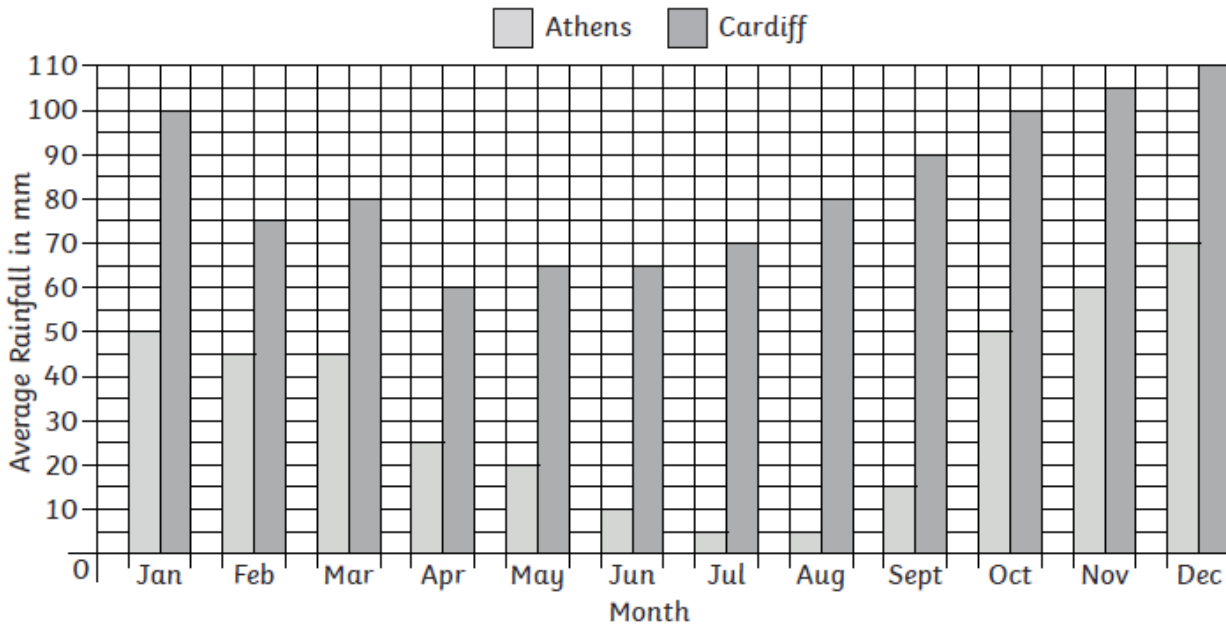
A Climate Graph to Show the Average Temperature and Rainfall in Athens



Let's test how good you are at reading more complex graphs by completing the sheets below.

Year 3 Worksheet:

A Graph to Show the Average Rainfall in Two Capital Cities



- 1) Which months in Athens have the lowest average rainfall?

- 2) Which month in Cardiff has the lowest average rainfall?

- 3) Which month in Athens has the highest average rainfall?

- 4) Which month in Cardiff has the highest average rainfall?

- 5) Which month in Athens has an average rainfall of 20mm?

- 6) Which months in Cardiff have an average rainfall of 100mm?

- 7) How many mm of rain does Athens get in August?

- 8) How many mm of rain does Cardiff get in November?

- 9) How many mm of rain does Athens get from June to August?

- 10) How many mm of rain does Cardiff get from June to August?

- 11) What is the difference in rainfall between the two cities in February?

- 12) What is the difference in rainfall between the two cities in December?

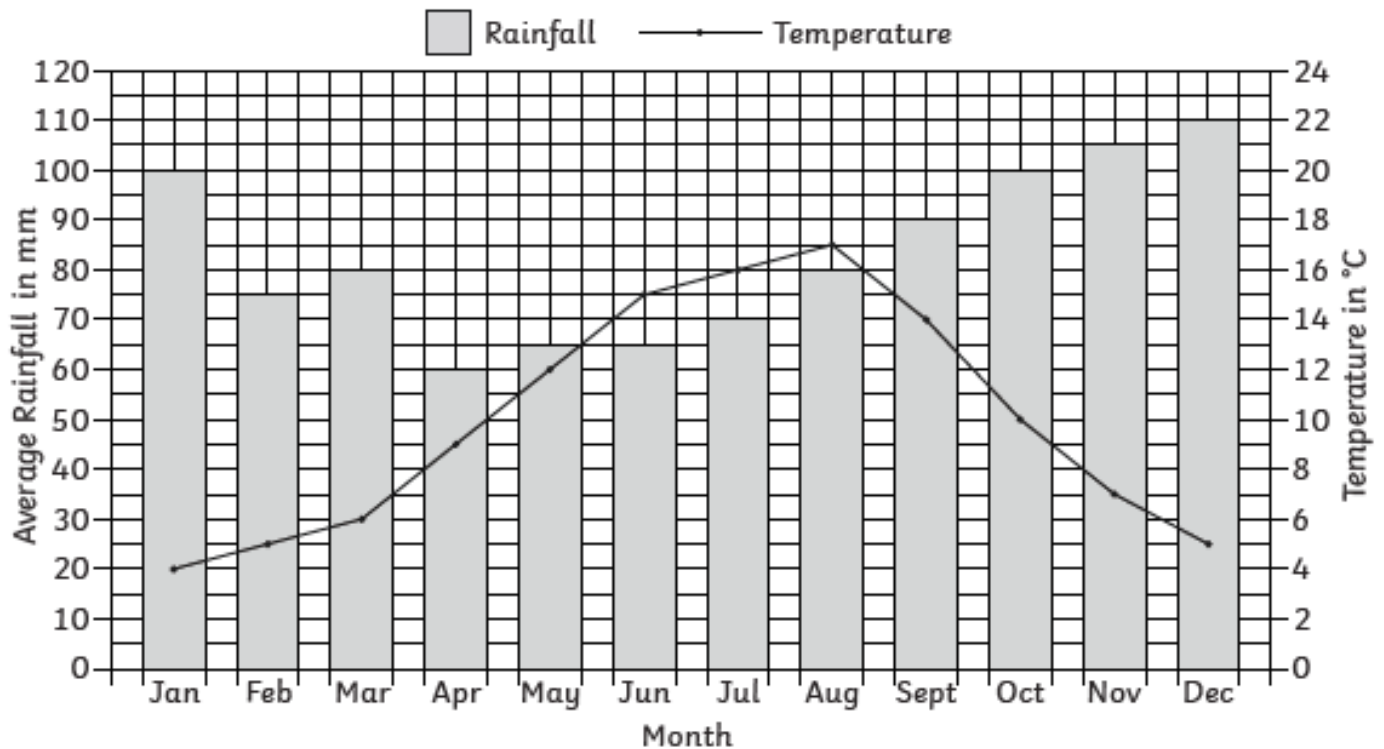


Climate Graphs

I can answer questions about data presented in bar charts and graphs.



A Climate Graph to Show the Average Temperature and Rainfall in Cardiff



- 1) Which month in Cardiff has the lowest average rainfall?

- 2) Which month in Cardiff has the highest average temperature?

- 3) Which month in Cardiff has the highest average rainfall?

- 4) Which month in Cardiff has the lowest average temperature?

- 5) Which month in Cardiff has an average rainfall of 70mm?

- 6) Which month in Cardiff has an average temperature of 6°C?

- 7) Which month in Cardiff has an average temperature of 15°C?

- 8) How many mm of rain does Cardiff get in May?

- 9) What is the average temperature in Cardiff during August?

- 10) What is the difference in rainfall between April and May?

- 11) How much does the temperature rise on average from May to August?

- 12) How many mm of rain does Cardiff get from September to November?

Year 3 Answers

Question	Answer
1. Which months in Athens have the lowest average rainfall?	<i>July and August</i>
2. Which month in Cardiff has the lowest average rainfall?	<i>April</i>
3. Which month in Athens has the highest average rainfall?	<i>December</i>
4. Which month in Cardiff has the highest average rainfall?	<i>December</i>
5. Which month in Athens has an average rainfall of 20mm?	<i>May</i>
6. Which months in Cardiff have an average rainfall of 100mm?	<i>January and October</i>
7. How many mm of rain does Athens get in August?	<i>5mm</i>
8. How many mm of rain does Cardiff get in November?	<i>105mm</i>
9. How many mm of rain does Athens get from June to August?	<i>20mm</i>

10. How many mm of rain does Cardiff get from June to August?	<i>215mm</i>
11. What is the difference in rainfall between the two cities in February?	<i>30mm</i>
12. What is the difference in rainfall between the two cities in December?	<i>40mm</i>

Year 4 Answers

Question	Answer
1. Which month in Cardiff has the lowest average rainfall?	<i>April</i>
2. Which month in Cardiff has the highest average temperature?	<i>August</i>
3. Which month in Cardiff has the highest average rainfall?	<i>December</i>
4. Which month in Cardiff has the lowest average temperature?	<i>January</i>
5. Which month in Cardiff has an average rainfall of 70mm?	<i>July</i>
6. Which month in Cardiff has an average temperature of 6°C?	<i>March</i>
7. Which month in Cardiff has an average temperature of 15°C?	<i>June</i>
8. How many mm of rain does Cardiff get in May?	<i>65mm</i>
9. What is the average temperature in Cardiff during August?	<i>17°C</i>

10. What is the difference in rainfall between April and May?	<i>5mm</i>
11. How much does the temperature rise on average from May to August?	<i>5°C</i>
12. How many mm of rain does Cardiff get from September to November?	<i>295mm</i>