

Monday - temperature graph

Tuesday - rainfall graph and sunshine hours

Wednesday - finish graphs (if you have to) and write a recommendation when to travel and why then

Thursday - currency and conversion from Pound Sterling

Friday - conversion graphs

Jun 20-10:09

Date:

LO: I can create graphs and charts

Success criteria:

- I can create a bar graph for rainfall in London (or Manston) and my travel destination.
- I can create a line graph for London (or Manston) and my travel destination.
- I can compare both graphs.
- I can recommend a month for travelling and explain my reasoning.

Jun 20-10:09

Monday - temperature graphs

Jun 20-10:09

LI: I can create graphs and charts

Using your information of rainfall, sunshine and temperature, create graphs.

Can you incorporate data for the UK?





What conclusions can you draw?

Jun 20-10:09

London



precipitation: any form of water that falls from the clouds, e.g. rain, drizzle, sleet, snow ...

Precipitation Table

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
 Average Precipitation mm (in)	53 (2.09)	40 (1.6)	37 (1.5)	38 (1.5)	46 (1.8)	46 (1.8)	56 (2.2)	59 (2.3)	50 (2)	57 (2.2)	64 (2.5)	48 (1.9)	594 (23.4)
 Precipitation Litres/m ² (Gallons/ft ²)	53 (1.3)	40 (0.98)	37 (0.91)	38 (0.93)	46 (1.13)	46 (1.13)	56 (1.37)	59 (1.45)	50 (1.23)	57 (1.4)	64 (1.57)	48 (1.18)	594 (14.57)
 Number of Wet Days (probability of rain on a day)	17 (55%)	13 (46%)	11 (35%)	14 (47%)	13 (42%)	11 (37%)	13 (42%)	13 (42%)	13 (43%)	14 (45%)	16 (53%)	16 (52%)	164 (45%)
 Percentage of Sunny (Cloudy) Daylight Hours	17 (83)	20 (80)	31 (69)	35 (65)	40 (60)	41 (59)	40 (60)	41 (59)	36 (64)	30 (70)	19 (81)	16 (84)	33 (67)




Manston

Precipitation Table




	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
 Average Precipitation mm (in)	46 (1.81)	33 (1.3)	41 (1.6)	42 (1.7)	38 (1.5)	47 (1.9)	45 (1.8)	46 (1.8)	56 (2.2)	62 (2.4)	65 (2.6)	49 (1.9)	570 (22.4)
 Precipitation Litres/m ² (Gallons/ft ²)	46 (1.13)	33 (0.81)	41 (1.01)	42 (1.03)	38 (0.93)	47 (1.15)	45 (1.1)	46 (1.13)	56 (1.37)	62 (1.52)	65 (1.59)	49 (1.2)	570 (13.98)

Jun 20-10:09

Average Temperatures Table for London, England

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
 Average Max Temperature °C (°F)	6 (42.8)	7 (44.6)	10 (50)	13 (55.4)	17 (62.6)	20 (68)	22 (71.6)	21 (69.8)	19 (66.2)	14 (57.2)	10 (50)	7 (44.6)	13.8 (56.9)
 Average Temperature °C (°F)	4 (39.2)	4.5 (40.1)	6.5 (43.7)	9 (48.2)	12.5 (54.5)	15.5 (59.9)	17.5 (63.5)	17 (62.6)	15 (59)	11 (51.8)	7.5 (45.5)	5 (41)	10.4 (50.8)
 Average Min Temperature °C (°F)	2 (35.6)	2 (35.6)	3 (37.4)	5 (41)	8 (46.4)	11 (51.8)	13 (55.4)	13 (55.4)	11 (51.8)	8 (46.4)	5 (41)	3 (37.4)	7 (44.6)

Average Temperatures Table for Manston

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
 Average Max Temperature °C (°F)	6.5 (43.7)	6.7 (44.1)	9.2 (48.6)	11.5 (52.7)	15.3 (59.5)	18.4 (65.1)	20.6 (69.1)	20.8 (69.4)	18.5 (65.3)	14.8 (58.6)	10.1 (50.2)	7.6 (45.7)	13.3 (56)
 Average Temperature °C (°F)	4 (39.2)	4.1 (39.4)	5.9 (42.6)	8.1 (46.6)	11.5 (52.7)	14.5 (58.1)	16.7 (62.1)	16.8 (62.2)	14.8 (58.6)	11.6 (52.9)	7.3 (45.1)	5.1 (41.2)	10 (50)
 Average Min Temperature °C (°F)	1.5 (34.7)	1.5 (34.7)	2.7 (36.9)	4.7 (40.5)	7.7 (45.9)	10.6 (51.1)	12.9 (55.2)	12.9 (55.2)	11.1 (52)	8.5 (47.3)	4.6 (40.3)	2.6 (36.7)	6.8 (44.2)

Jun 20-10:09

average rainfall	Jan: _____	July: _____
	Feb: _____	Aug: _____
	Mar: _____	Sep: _____
	Apr: _____	Oct: _____
	May: _____	Nov: _____
	Jun: _____	Dec: _____
average temperatures	Jan: _____	July: _____
	Feb: _____	Aug: _____
	Mar: _____	Sep: _____
	Apr: _____	Oct: _____
	May: _____	Nov: _____
	Jun: _____	Dec: _____
sunshine hours	Jan: _____	July: _____
	Feb: _____	Aug: _____
	Mar: _____	Sep: _____
	Apr: _____	Oct: _____
	May: _____	Nov: _____
	Jun: _____	Dec: _____

On your research sheet, you had to fill in the information for your island.

If you haven't done that, you need to do that first.

I'm asking you to fill these in with numbers.

rainfall in mm

temperatures in °C

sunshine hours just the number

Jun 20-10:09

Now choose whether you want to refer to temperatures in London or in Manston.

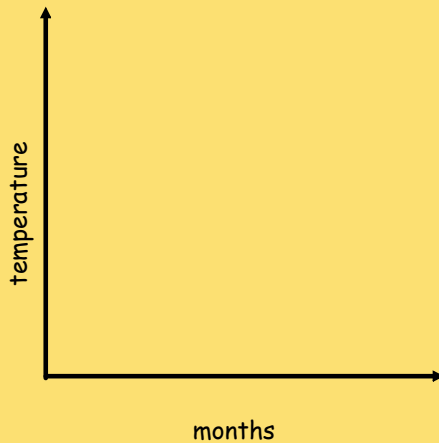
There is a handout with the name handout climate London Manston.

Your first task is to create graphs comparing the temperature here at home and the average temperature on your island.

Think: What kind of graph is best to show the temperature? Bar graph, line graph, scatter graph?

Jun 20-10:09

Obviously a line graph!



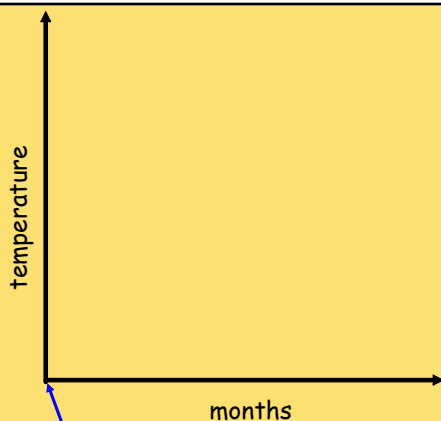
I strongly suggest you record the average temperature.

You need to think about the layout of the axis. It also depends on what kind of paper you have!

Will you have the page landscape or portrait?

What is the highest temperature you need to record?

Jun 20-10:09



I'd put January right there.

If you work on graph paper based on 1 cm squares or in a 1 cm squared book, I'd go with

- having the page portrait
- x axis: the months are 1 cm spaced. *Make sure you label the line, not the space.*
- y axis 20 cm; 1 cm is 2 degrees Celsius. You need to label in 1 cm steps 2, 4, 6, 8 ...

7 mm paper - one square represents one degree in temperature label the line maybe space the months two squares at a time

Consider that you need space to label the axis and space for a chart title.

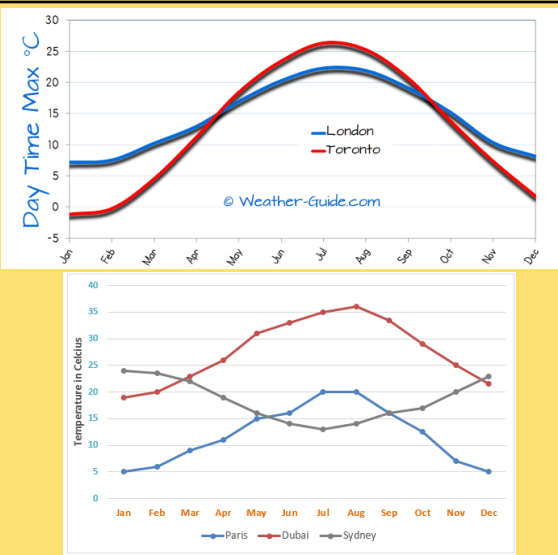
You can use abbreviations for the months.

Jun 20-10:09

Now plot the temperature line for London or Manston. Draw a little cross where months and temperature meet. Once you have your 12 crosses, link them up using a ruler.

Use a different colour to plot the line for the temperature of your island destination.

Use a key to show which line is for which location.



Jun 20-10:09

Tuesday - rainfall graphs

Jun 20-10:09

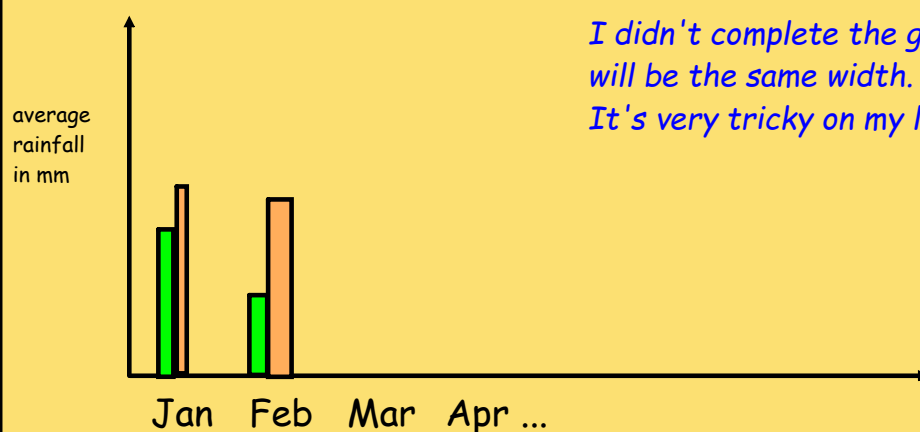
Today you are going to make a bar graph showing the average rainfall for your island destination and London or Manston.

Easier: Making two graphs, one for each location but using the same scale for each graph

Harder: Combining both locations into one graph. That's what I've demonstrated on the next page.

Jun 20-10:09

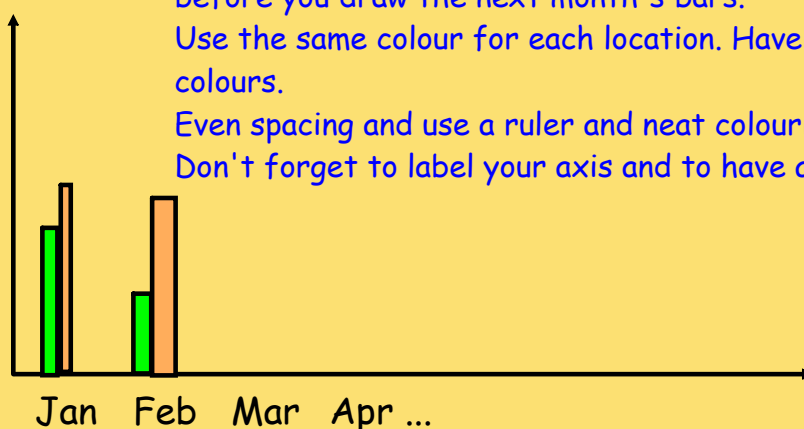
Here it is very difficult for me to help you with the scales for the graph. But it will look something like this.



*I didn't complete the graph - and your bars will be the same width.
It's very tricky on my laptop!*

Jun 20-10:09

average
rainfall
in mm



The bars for London/Manston and your island for each month are next to each other, with no gap. Then you need a gap before you draw the next month's bars.

Use the same colour for each location. Have a key for the colours.

Even spacing and use a ruler and neat colouring.

Don't forget to label your axis and to have a chart title.

Jun 20-10:09

And the next task is to make a bar graph about sunshine hours. It is the same layout as the rainfall one.

Jun 20-10:09

LE: I can create graphs and charts

Using your information of rainfall, sunshine and temperature, create graphs.

Can you incorporate data for the UK?

What conclusions can you draw?

Now comes the challenge:

In which month would you recommend your customer travels?

You need to consider both the weather in the UK and on the island!

Jun 20-10:09

Imagine your customer also has children. That means they can only go in the school holidays. Because your destinations are all long-haul, I think it is wiser to look at 10 to 14 days holiday because you lose already so much time flying there.

That means the months to consider are:

- . December
- . April
- . August

Jun 20-10:09

Tourists want ...

. sunshine

. but not too hot

. no rain

Consider: why would you travel somewhere warm when it is warm at home?

Write a recommendation when to travel to the island giving reasons based on the weather both for the island and here at home.

Jun 20-10:09