

# Task 4

A: Use the data to draw climate graphs for Rio de Janeiro and Porto Nacional.

B: Answer the questions describing your graphs.

C: Answer the questions to make predictions about Northern Ireland's climate.

D: Use the data to draw a climate graph for Northern Ireland.

E: Compare a climate graph from Brazil with your Climate graph of Northern Ireland.

# A

## Climate statistics for Rio de Janeiro and Porto Nacional



Using the data draw 2 climate graphs, recap on next slide to help you.

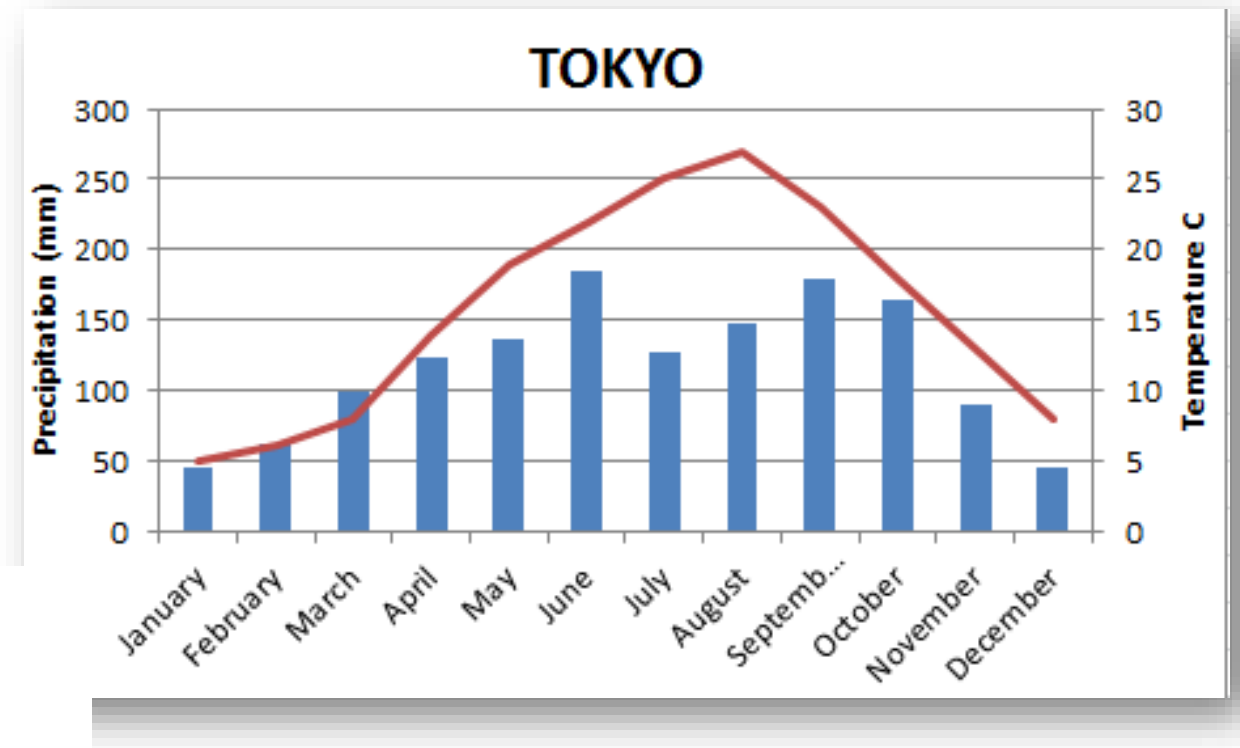
<u>Rio de Janeiro</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	29	30	29	27	25	25	24	25	24	25	26	28
Rainfall (mm)	125	122	130	107	79	53	41	43	66	79	104	137

<u>Porto Nacional</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	26	24	25	26	26	25	25	26	27	26	25	25
Rainfall (mm)	300	290	290	150	40	10	10	10	40	150	240	290

# Recap!

- **Rainfall** = bar graph
- **Temperature** = line graph

- Title
- Bar chart for rainfall and line graph for temperature
- Label the x axis
  - months
- Label the y axis
  - rainfall in millimeters (mm)
  - temperature in Degrees Celsius



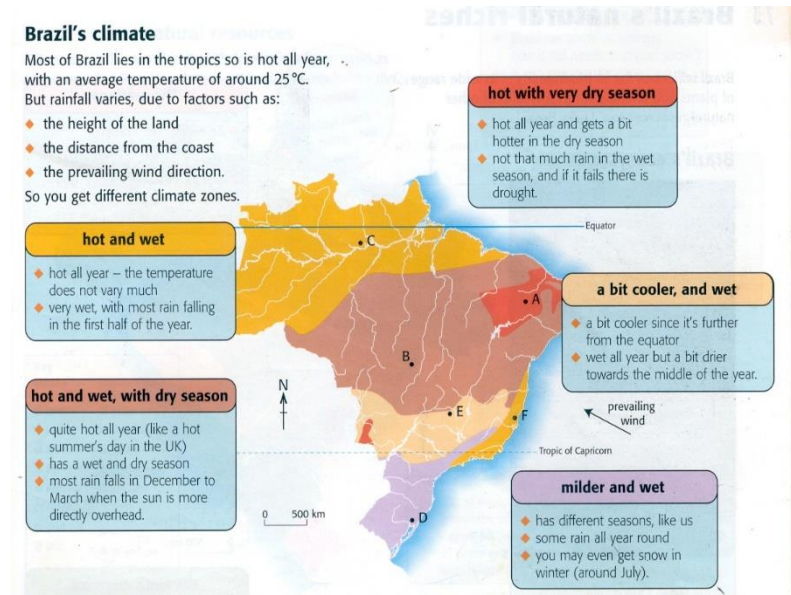
# B

1. Describe the climate of the two places including;

- Describing average temperature and rainfall
- The range of temperature and rainfall
- Referring to specific months/ seasons
- Use of numerical evidence

2. What are the similarities and differences between the two graphs?

3. Looking at your graph and the climate graph from the previous lesson (shown below), decide which region they belong to and justify your answer.



# C

## Northern Ireland's Climate

Before we begin, make predictions;

1. When would you expect to see the highest/lowest **rainfall** in Northern Ireland?
2. When would you expect to see the highest/lowest **temperatures** in Northern Ireland?
3. Which hemisphere is Northern Ireland in?

# D

## Climate statistics for Northern Ireland



Draw a climate graph for Northern Ireland

<u>Northern Ireland</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	3	4	5	7	10	13	15	14	12	10	6	5
Rainfall (mm)	93	67	67	62	64	69	77	94	97	94	97	95

**E** Pick one of the climate graphs you previously drew for Brazil and compare it to your Northern Ireland climate graph. Don't forget to quote figures from your graph! You should include;

- Look at the overall **shape** of the graphs. Is the temperature line steep or gentle? Does it change throughout the year and/or look almost flat?
- **Highest/lowest rainfall** in NI, is this the same as Brazil?
- Add the **rainfall totals** for each month together to work out the total annual rainfall.
- **Highest/lowest temperatures** in NI, is this the same as Brazil?
- Look for **extremes** - quote the highest and lowest temperature and rainfall and the month in which it occurs. Remember to quote units, e.g. Celsius or millimetres.
- Work out the **temperature range** by subtracting the lowest figure from the highest figure.
- Which **hemisphere** is NI in? Which hemisphere is Brazil in?
- How would this affect the climate in each location?
- How close is the UK to the **equator**? How close is Brazil to the equator?
- How will this affect the climate?