Capital city data detective

Look at the data in the two tables.

The data is the average temperatures across the year for two Australian capital cities.

One table is data for Melbourne, Victoria; the other is for Brisbane, Queensland.

1. Work out which table relates to which capital city.

Explain your reasoning.

Table A

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average maximum temperature (°C)	29.1	28.9	28.1	26.3	23.5	21.2	20.6	21.7	23.8	25.6	27.3	28.6
Average minimum temperature (°C)	14.3	14.6	13.2	10.8	8.7	6.9	6.0	6.7	8.0	9.6	11.2	13.0

Table B

|	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average maximum temperature (°C)	26.0	25.8	23.9	20.3	16.7	14.1	13.5	15.0	17.3	19.7	22.0	24.2
Average minimum temperature (°C)	14.3	14.6	13.2	10.8	8.7	6.9	6.0	6.7	8.0	9.6	11.2	13.0

Data source: Bureau of Meteorology

2. Here is a partly completed graph using some of the data from one of the tables.

- Which table is this graph representing Table A or Table B?
- Can you predict what the graph with all values plotted might look like?
- Plot the points to see if you were correct.

Average monthly temperature (°C) for a mystery capital Australian city
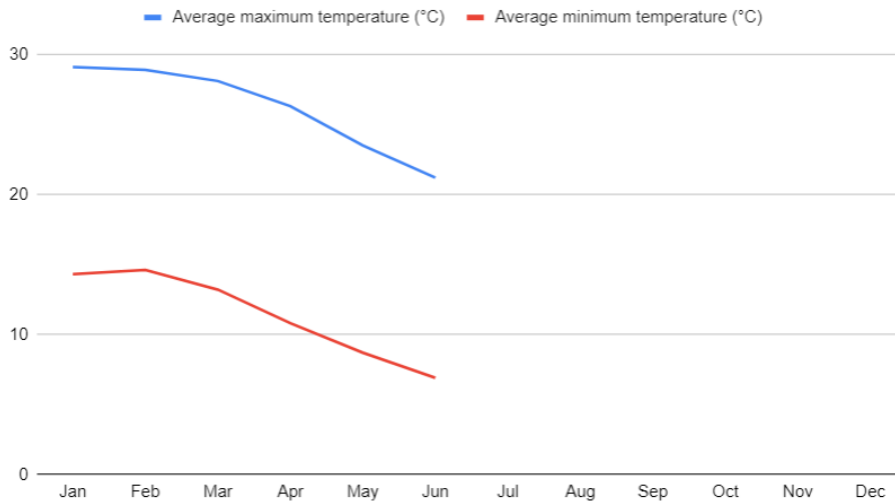
3. Create a graph for the other table of data. If you can, use a computer and spreadsheet to create the graph.

Consider the best type of graph to use. Give a reason for your choice of graph.

- What patterns do you notice?
- What conclusions can you draw from the two graphs?