PART 3 – Reasoning & Problem Solving

WALT Use Line Graphs to Solve Problems

See my notes in green to help you.

Problem Solving 1
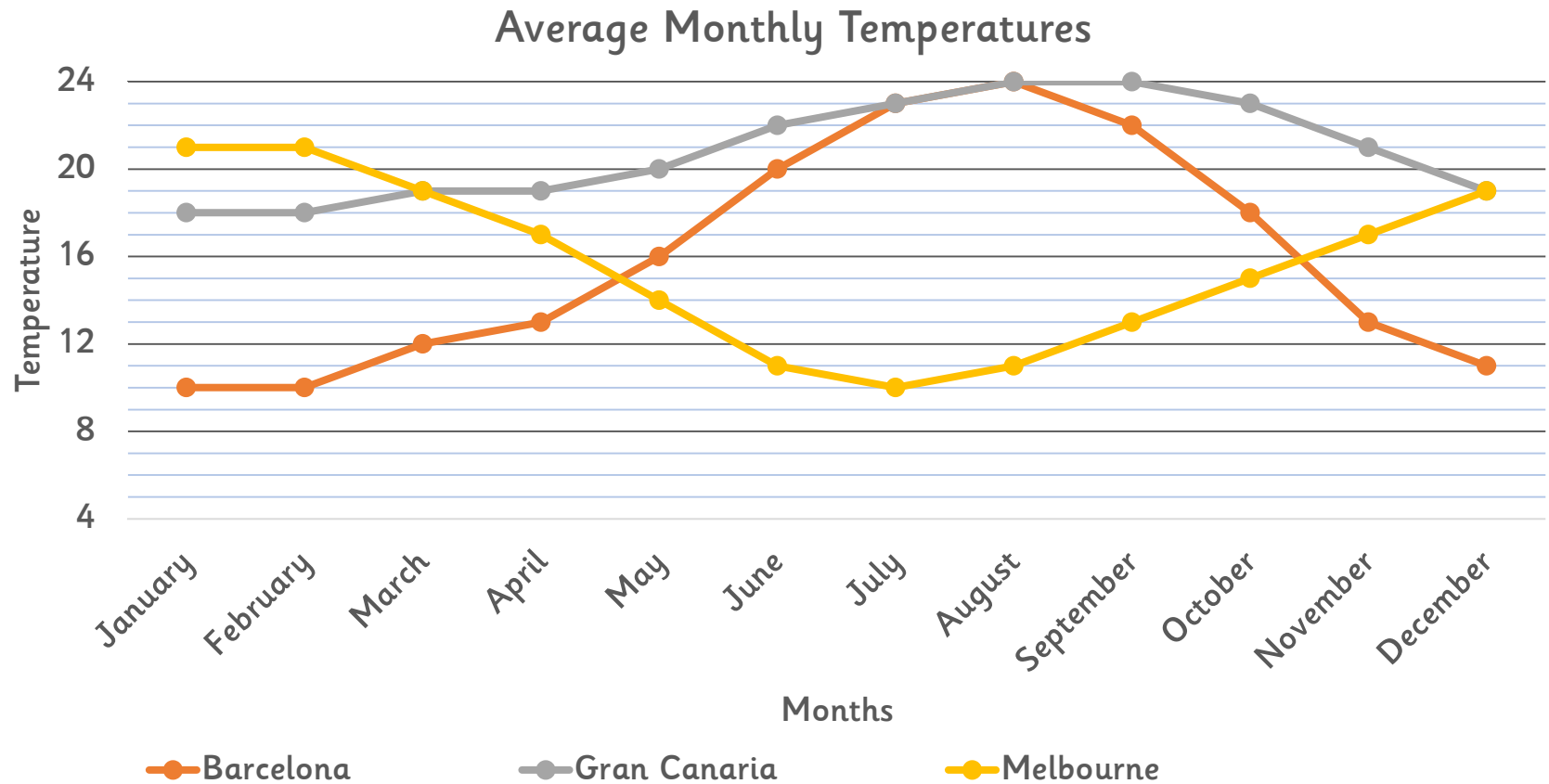
Average Monthly Temperatures

Temperature vs Months

Barcelona — Gran Canaria — Melbourne

Which place has the widest variation in temperature over the course of the year?

Average Monthly Temperatures

Legend: Barcelona, Gran Canaria, Melbourne

Y-axis: Temperature (4, 8, 12, 16, 20, 24)

X-axis: Months (January, February, March, April, May, June, July, August, September, October, November, December)
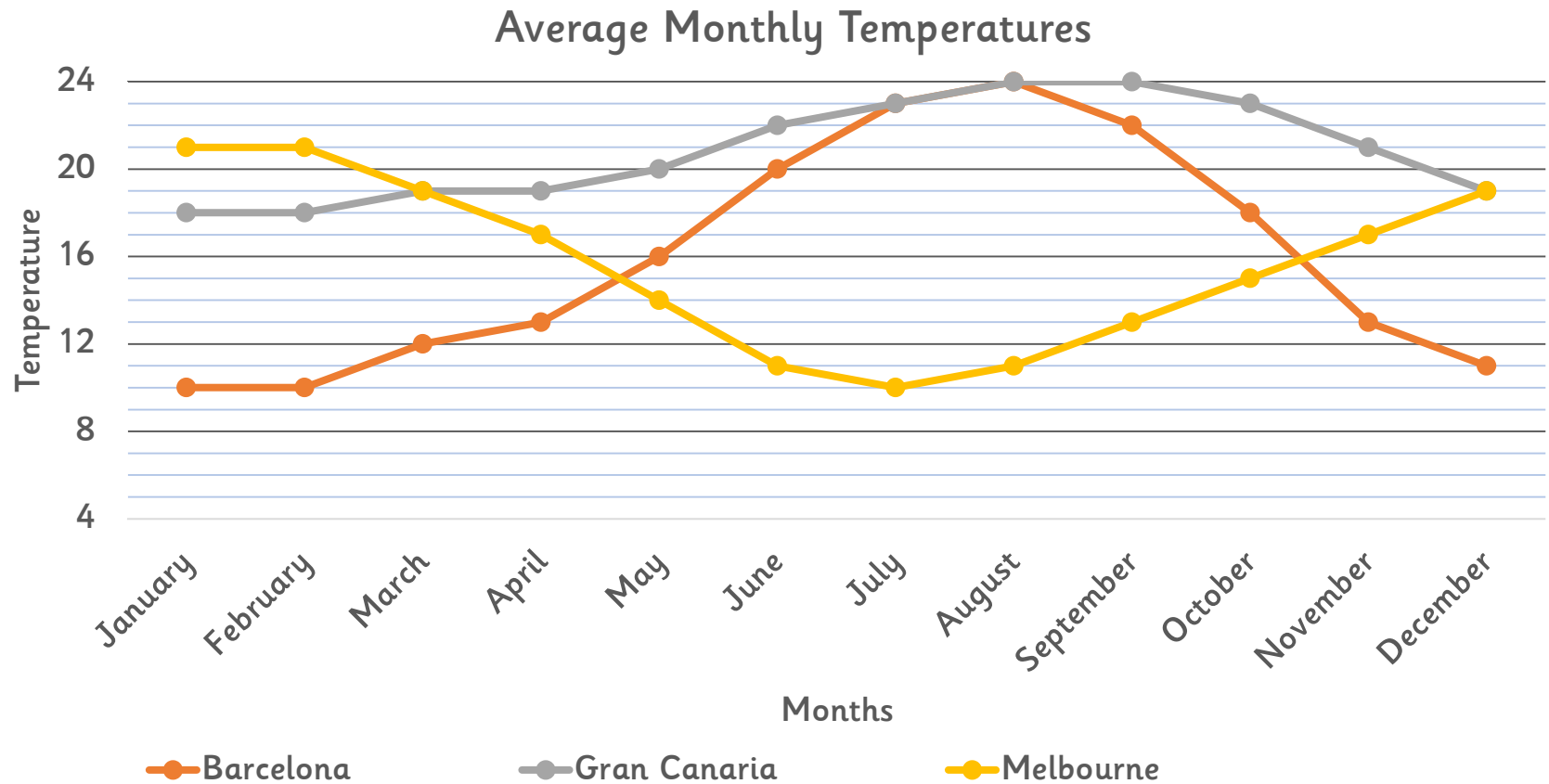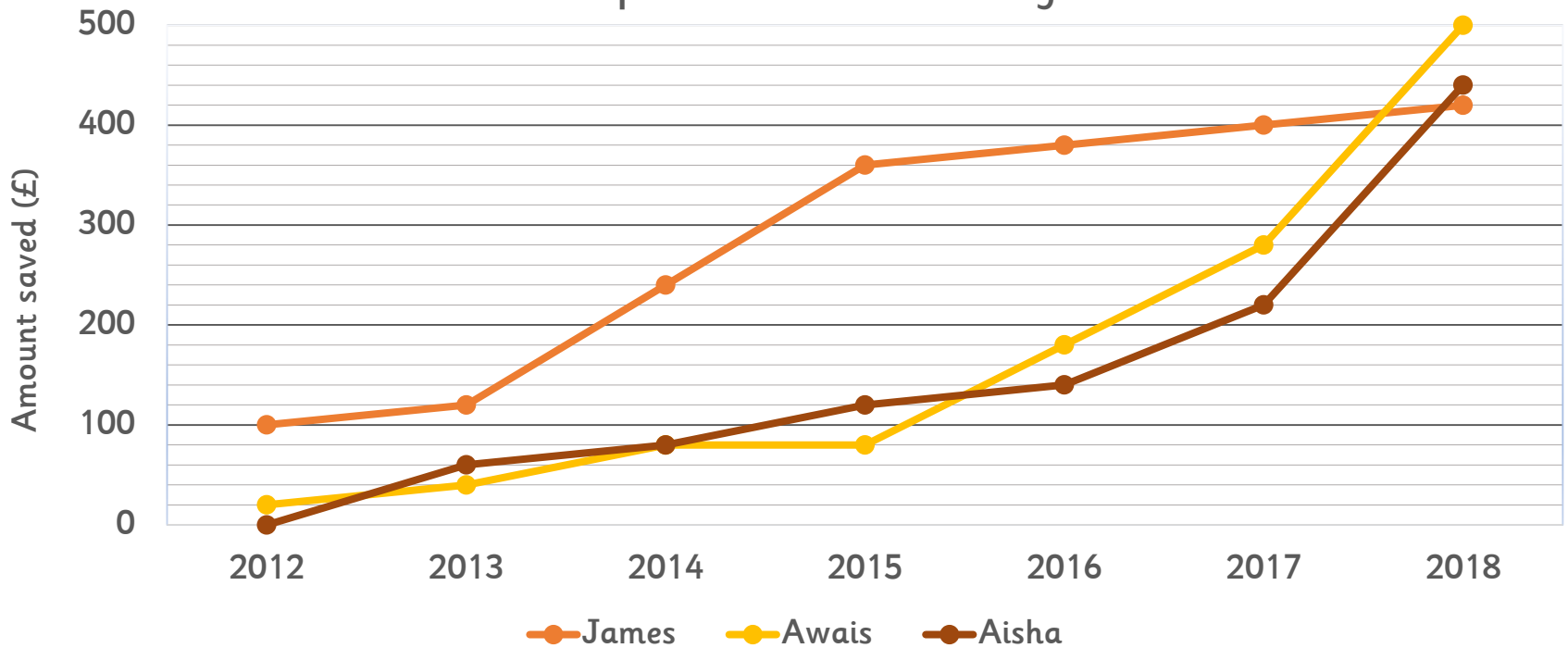
Which place has the widest variation in temperature over the course of the year?

Barcelona *(find the difference between the lowest and highest temperatures for each city)*
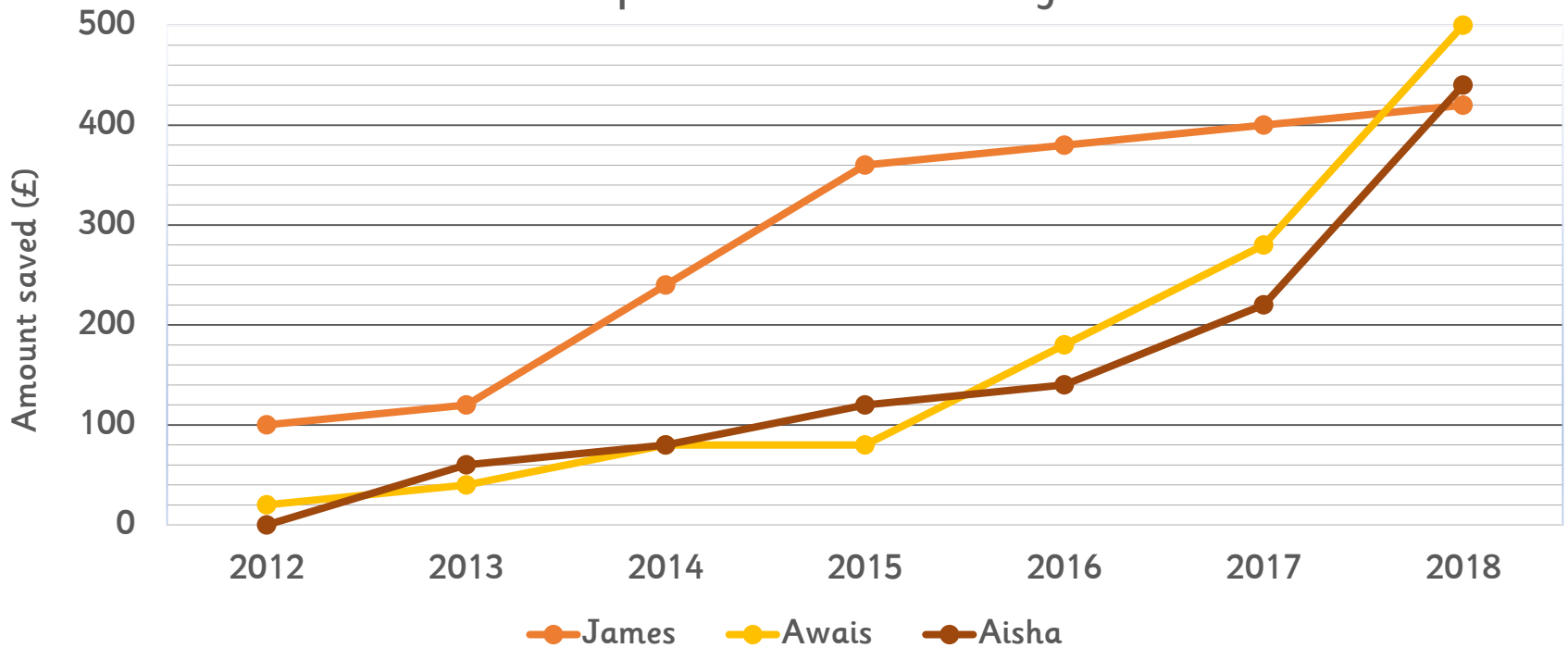
Reasoning 1

Graph of Children's Savings

What is the same about these children's savings and what things are different?

Graph of Children's Savings

What is the same about these children's savings and what things are different?

Various answers; for example:
All the children increase their savings over time. James saves money every year. Awais doesn't save any extra money from 2014 – 2015.

What could this graph be showing? Label the graph to show what you think it could be about. *HINT: Think about possible unites of measurement the axis could be referring to and what the three different lines might represent.*
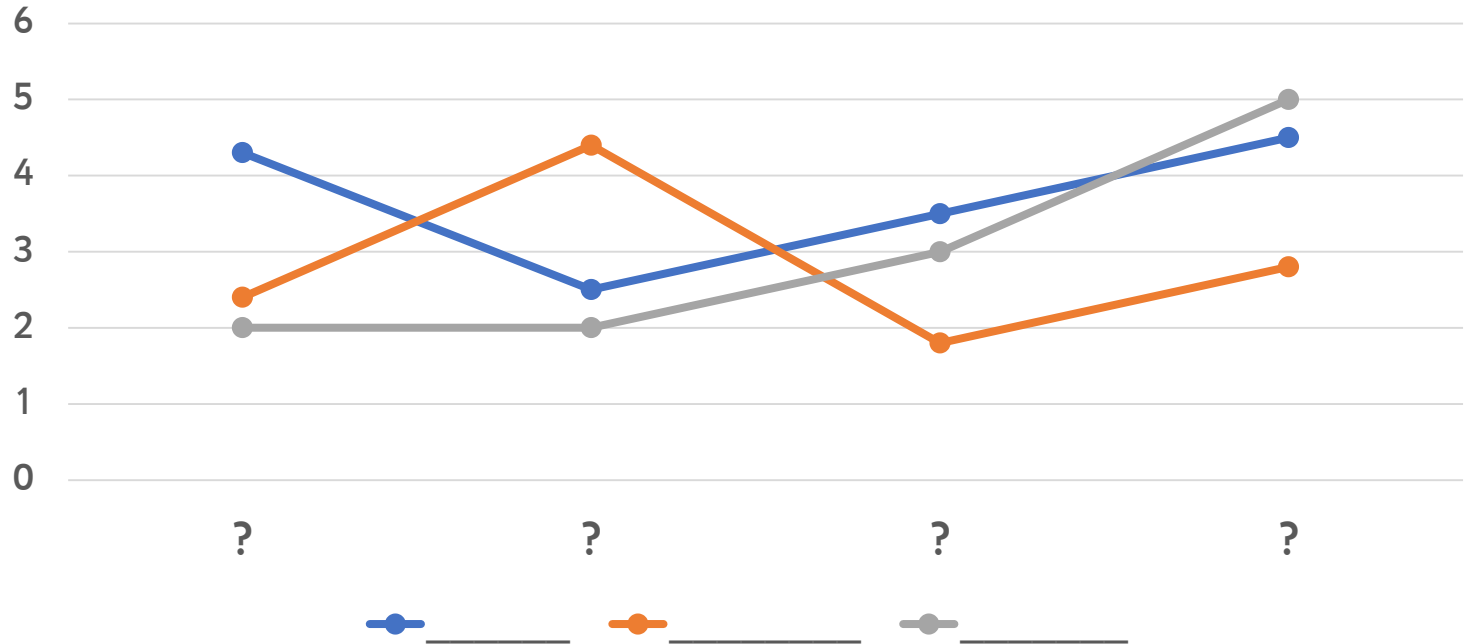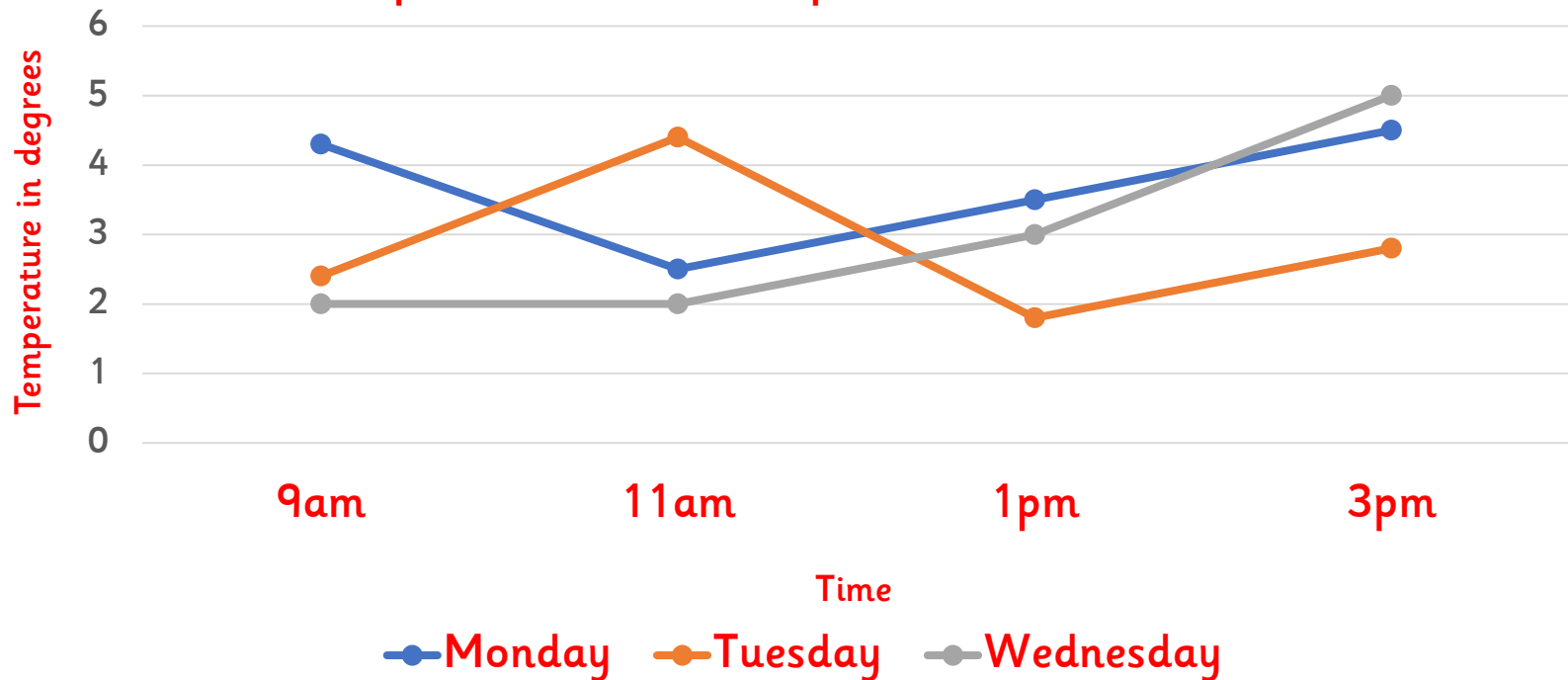
Problem Solving 2

What could this graph be showing? Label the graph to show what you think it could be about.

Example answer:

Graph to show the Temperature in a School

Well done! It's over to you now.

Go to Part 4 and choose your Star Challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen Star Challenge – the 'A' questions. If you want extra practice, you can then do the next set of questions – the 'B' questions. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.