

Year 6 – Summer Block 3 – Statistics – Use Line Graphs to Solve Problems

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6S1) [Interpret and construct pie charts and line graphs and use these to solve problems](#)

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

Good morning, Year 6! It's 11th May 2020

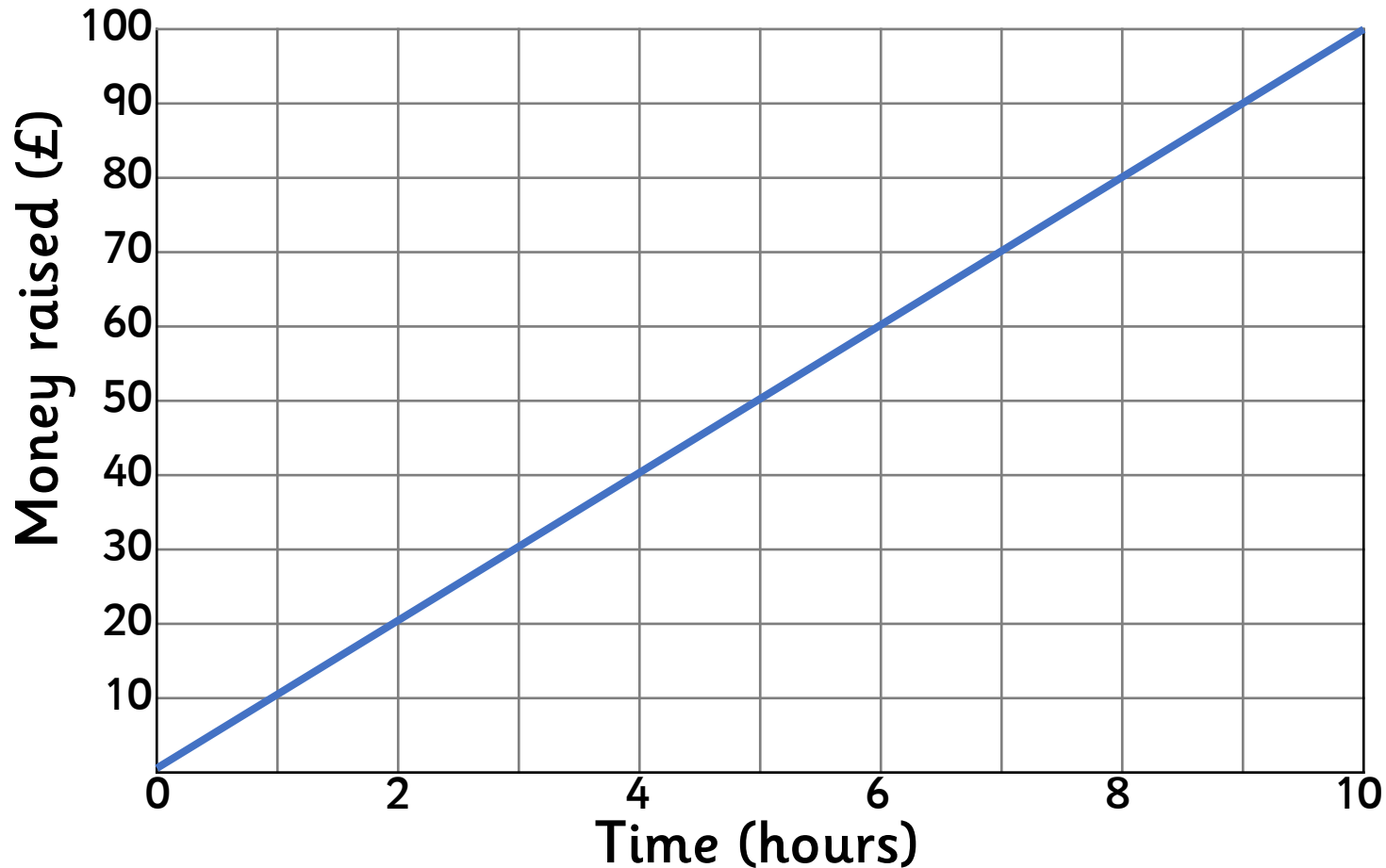
PART 1 - Fluency

WALT Use Line Graphs to Solve Problems

*See my notes in green to
help you.*

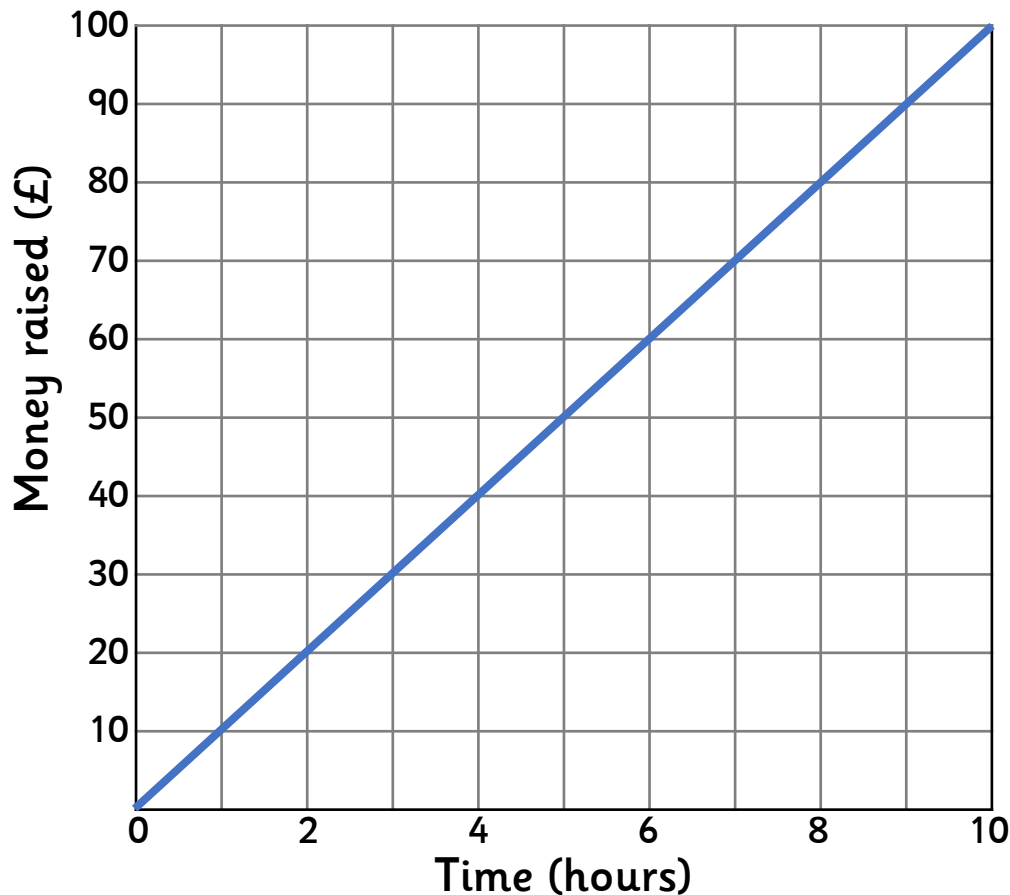
Introduction

This graph shows how much money was raised over a 10 hour period during a charity event.
Write 3 questions based on this line graph.



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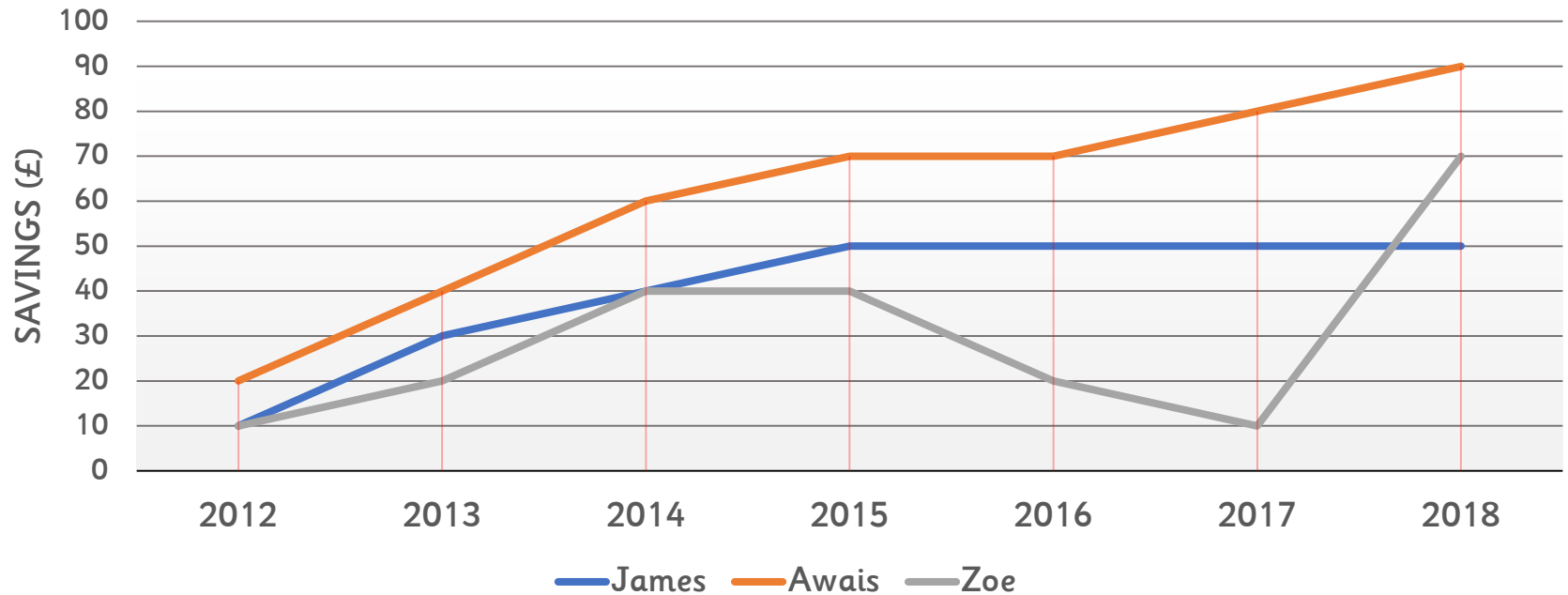


Example questions:

- How much money was raised in total?
- How much money was raised in the first 4 hours?
- How long did it take to raise £50?
- How much more money was raised after 9 hours than after 3 hours?
- If the event carried on for another 2 hours, how much more money might have been raised?

Varied Fluency 1

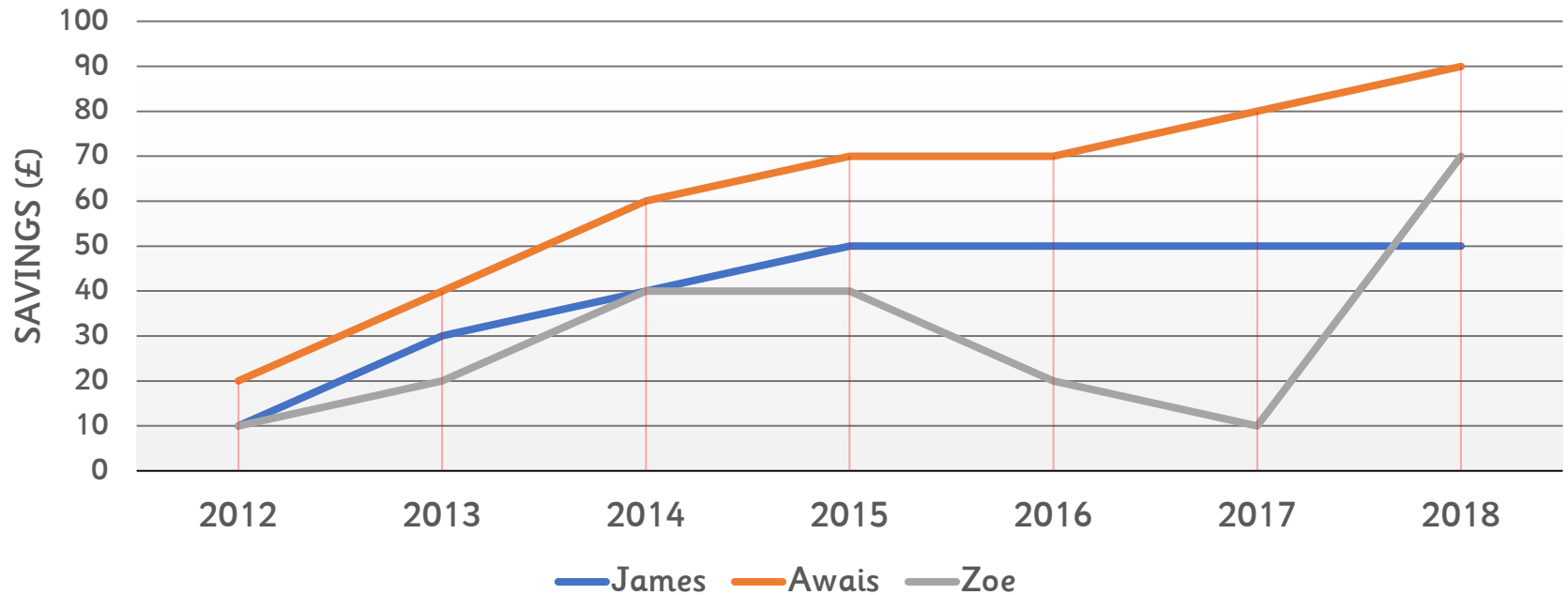
Children's Savings



How much money had each child saved by 2016?

Varied Fluency 1

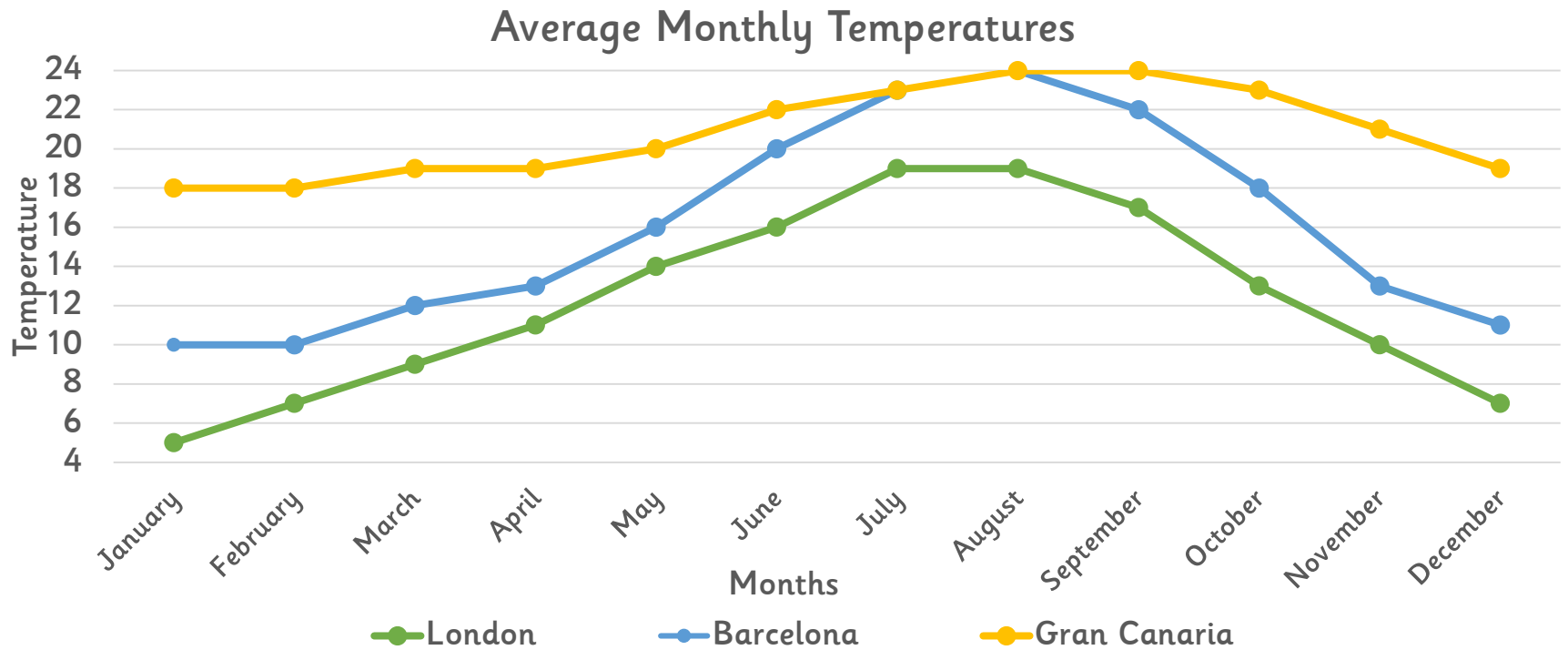
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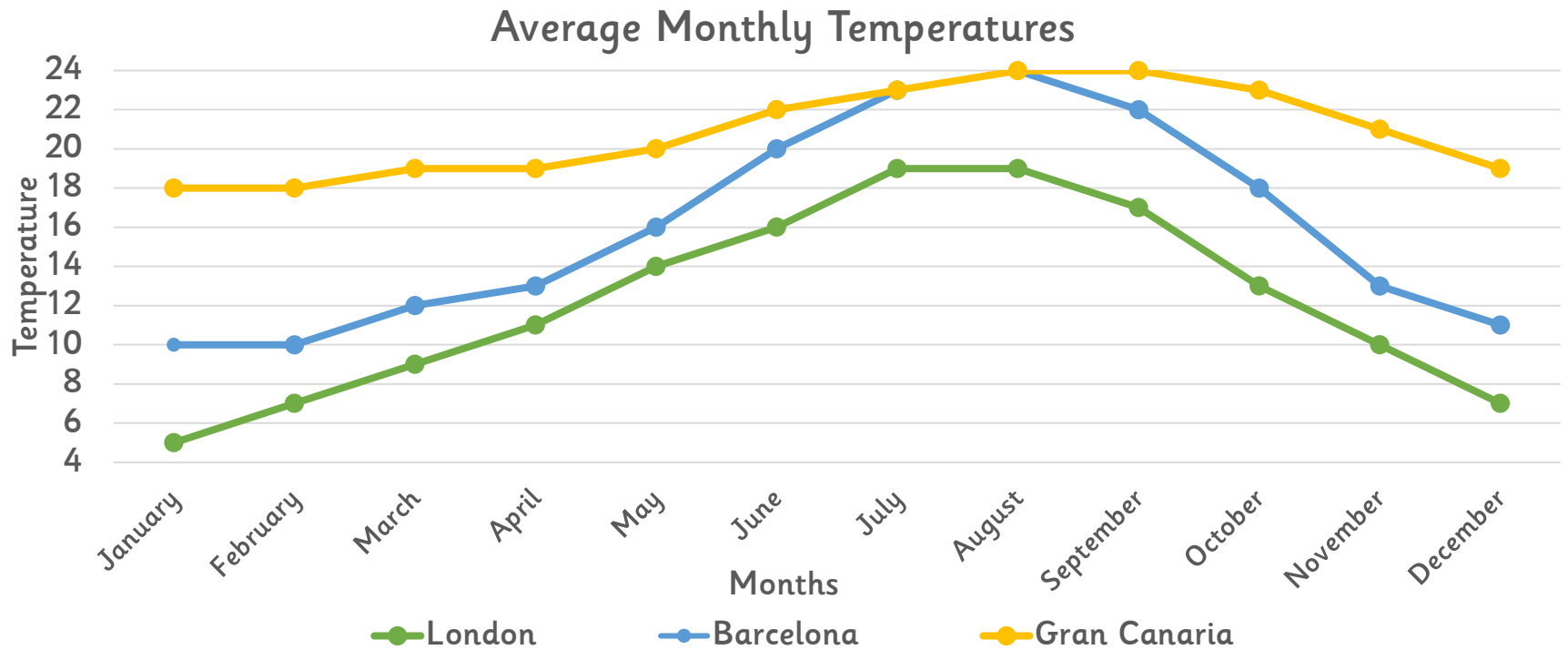
James – £50, Awais – £70, Zoe – £20

Varied Fluency 2



How much hotter is it in Gran Canaria than in London in December?

Varied Fluency 2

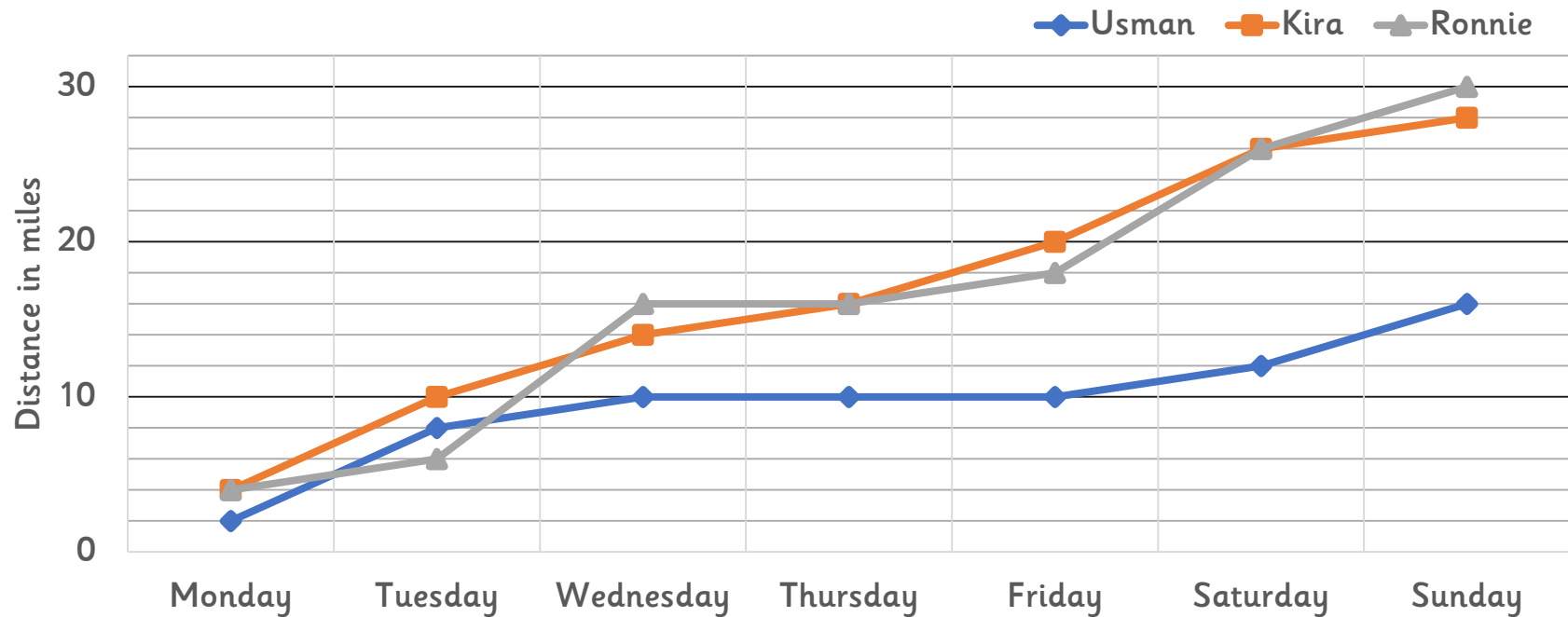


How much hotter is it in Gran Canaria than in London in December?

$$12^{\circ}\text{C} \text{ (GC temp (19}^{\circ}\text{C) - L temp (7}^{\circ}\text{C) = 12}^{\circ}\text{C)}$$

Varied Fluency 3

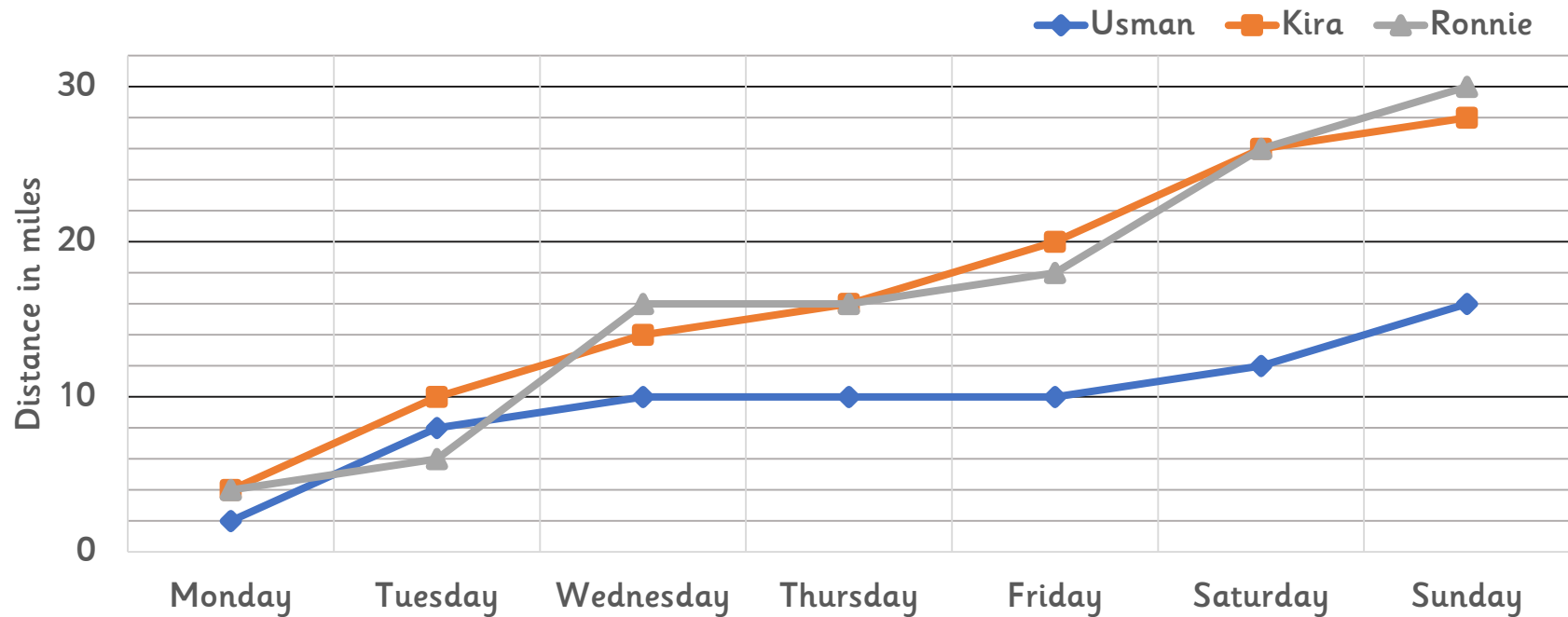
Distance cycled by children in one week



How far had each child cycled by Tuesday?

Varied Fluency 3

Distance cycled by children in one week



How far had each child cycled by Tuesday?

Usman – 8 miles

Kira – 10 miles

Ronnie – 6 miles

Well done! It's over to you now.

Go to Part 2 and choose your 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 challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.