

# Varied Fluency – Use Line Graphs to Solve Problems

## National Curriculum Objectives:

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

## Differentiation:

**Developing** Questions to support using line graphs to solve problems. Including reading information accurately and graphs with more than one set of data.

**Expected** Questions to support using line graphs to solve problems. Including reading information accurately, graphs with varying scales and graphs with more than two sets of data.

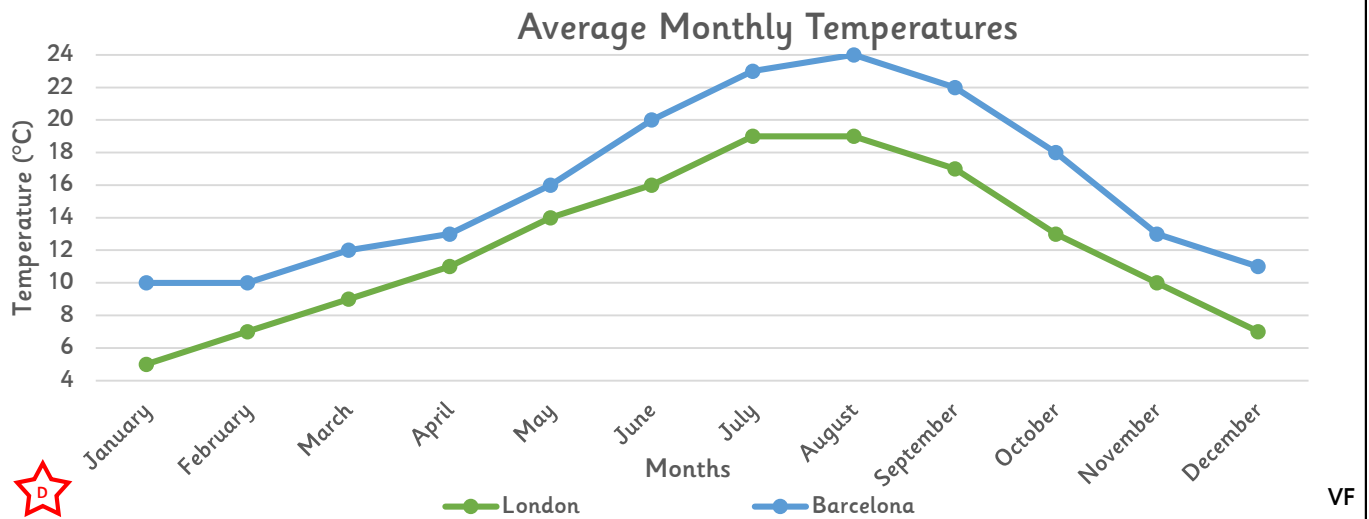
**Greater Depth** Questions to support using line graphs to solve problems. Including reading information accurately, graphs with varying scales and graphs with up to 4 sets of data.

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

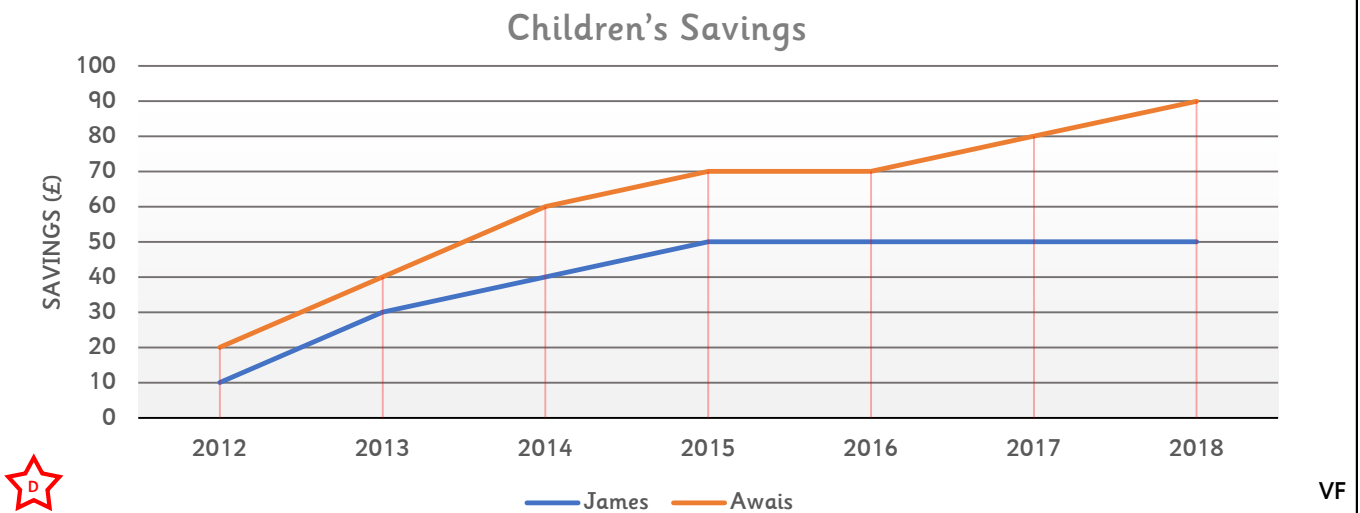
Did you like this resource? Don't forget to [review](#) it on our website.

# Varied Fluency – Use Line Graphs to Solve Problems

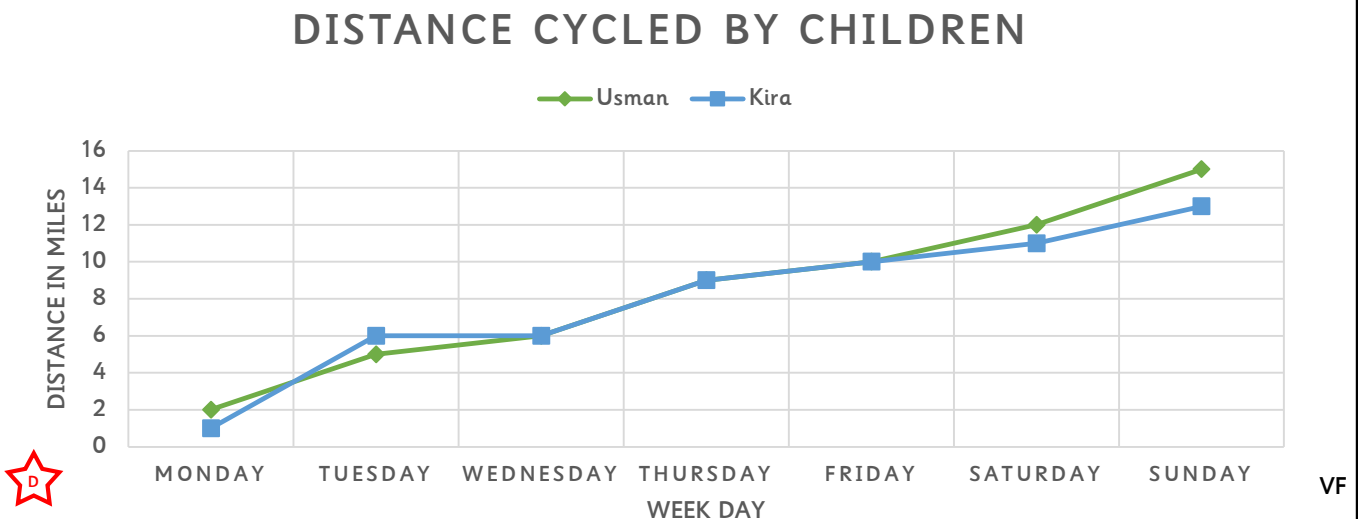
1a. When is Barcelona usually at its highest temperature?



2a. How much more money had Awais saved than James in 2017?

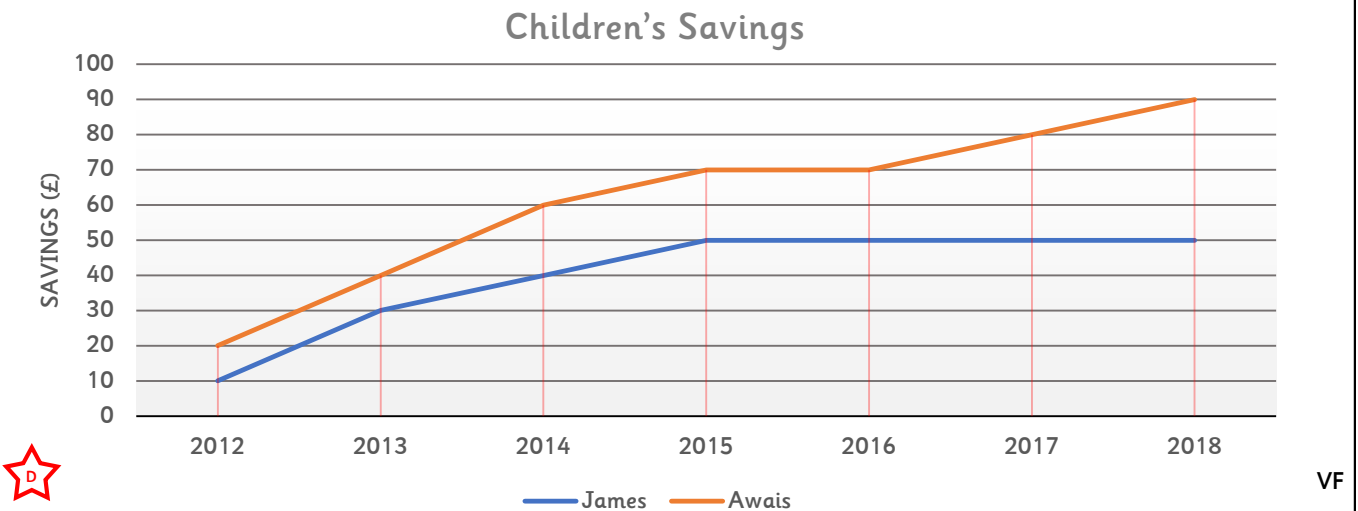


3a. How many miles had each child cycled by the end of Friday?

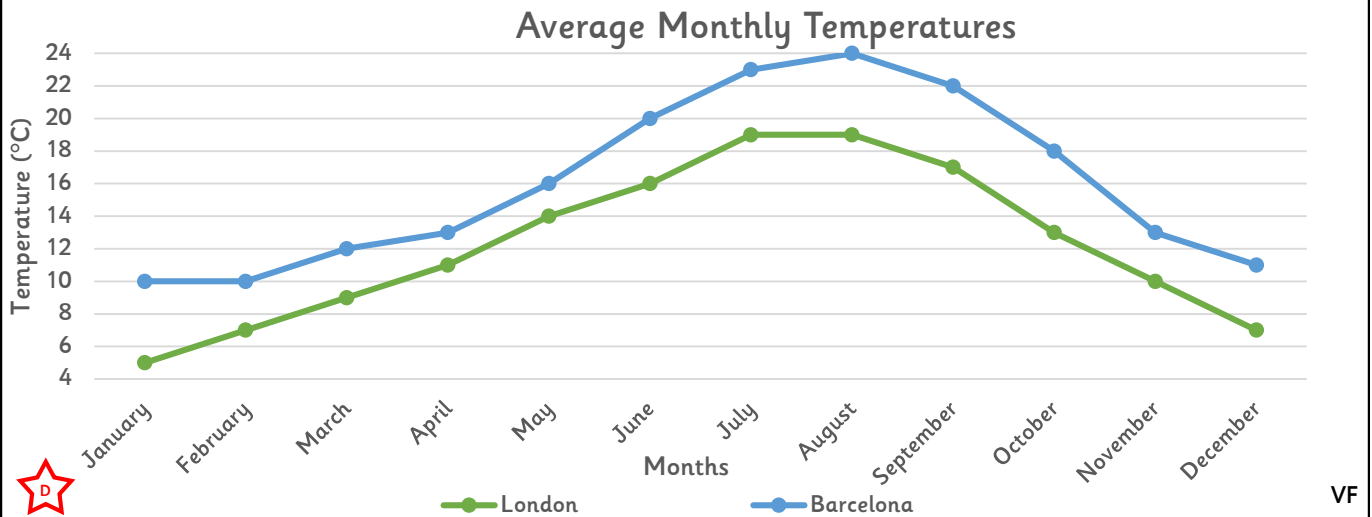


# Varied Fluency – Use Line Graphs to Solve Problems

1b. How much money had Awais saved by 2015?

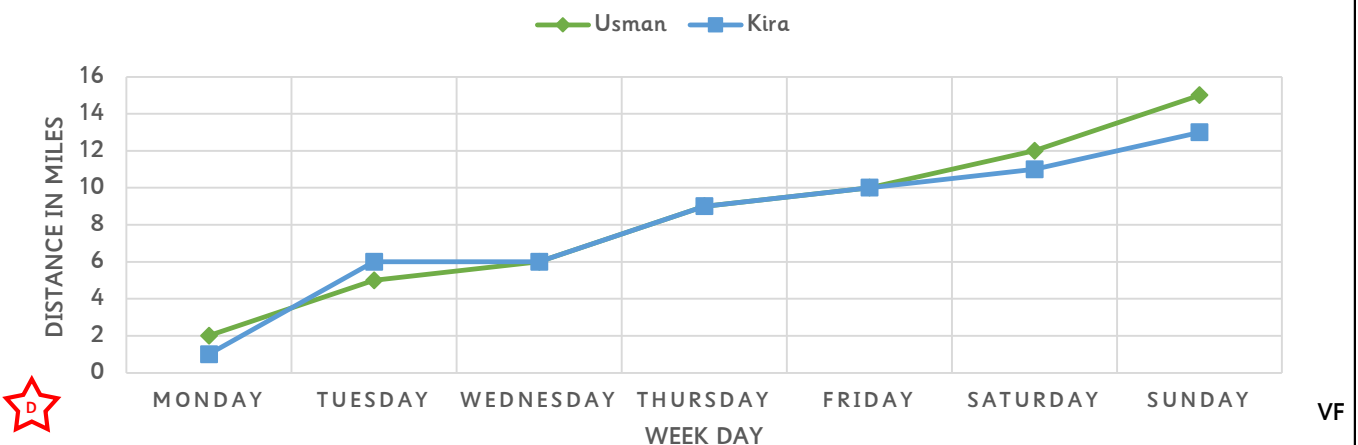


2b. What is the difference in temperature between London and Barcelona in July?



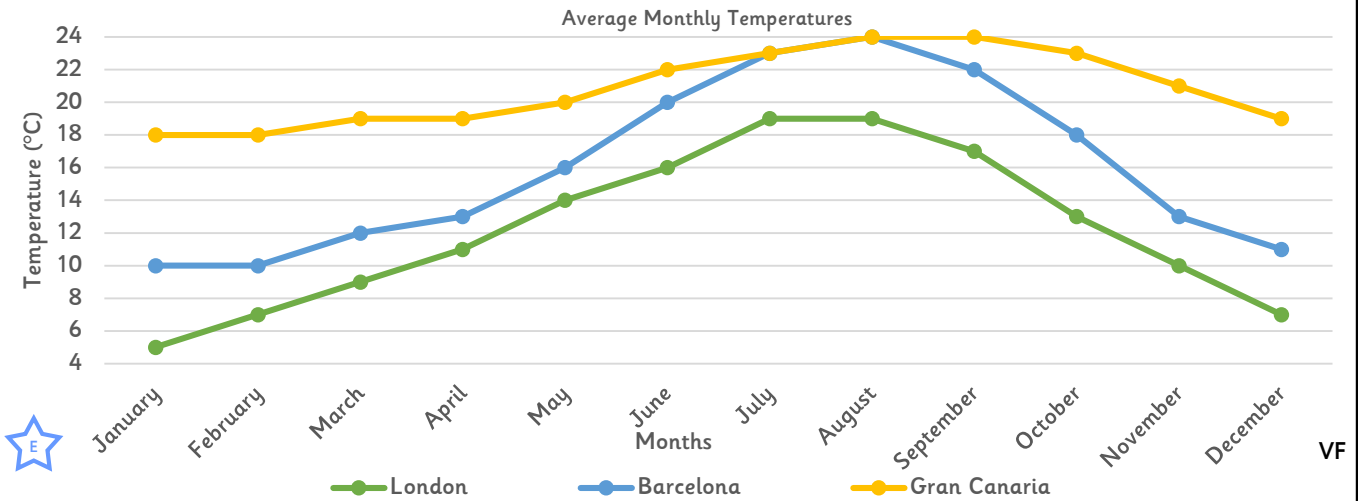
3b. Which child cycled the furthest from Friday to Saturday?

## DISTANCE CYCLED BY CHILDREN

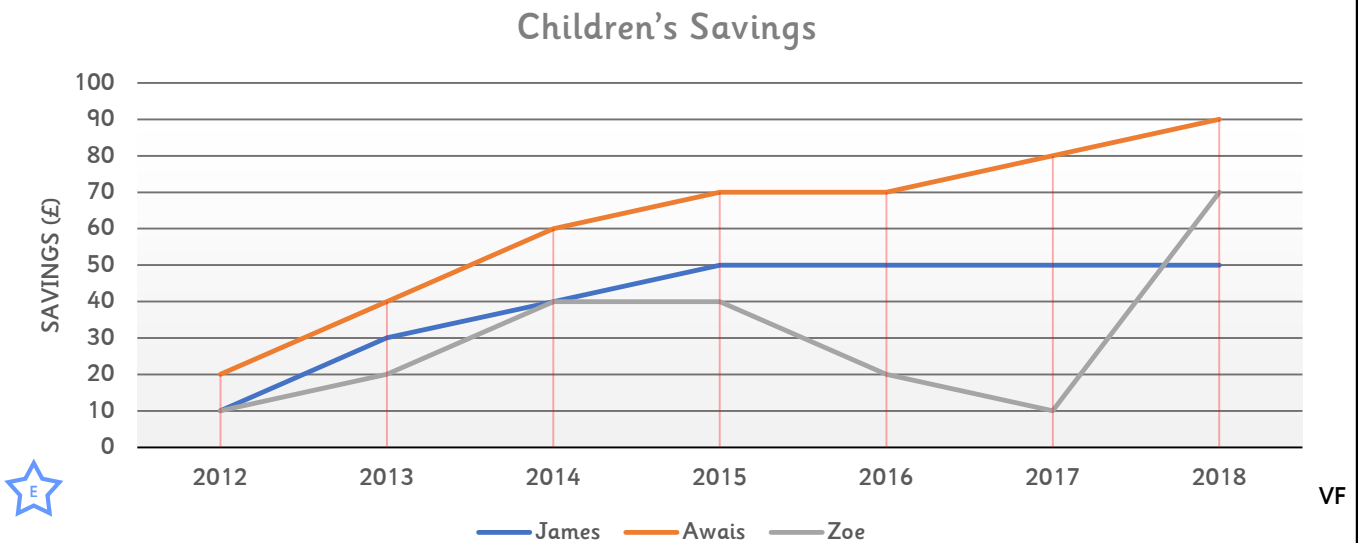


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4a. What is the temperature in each place in December?

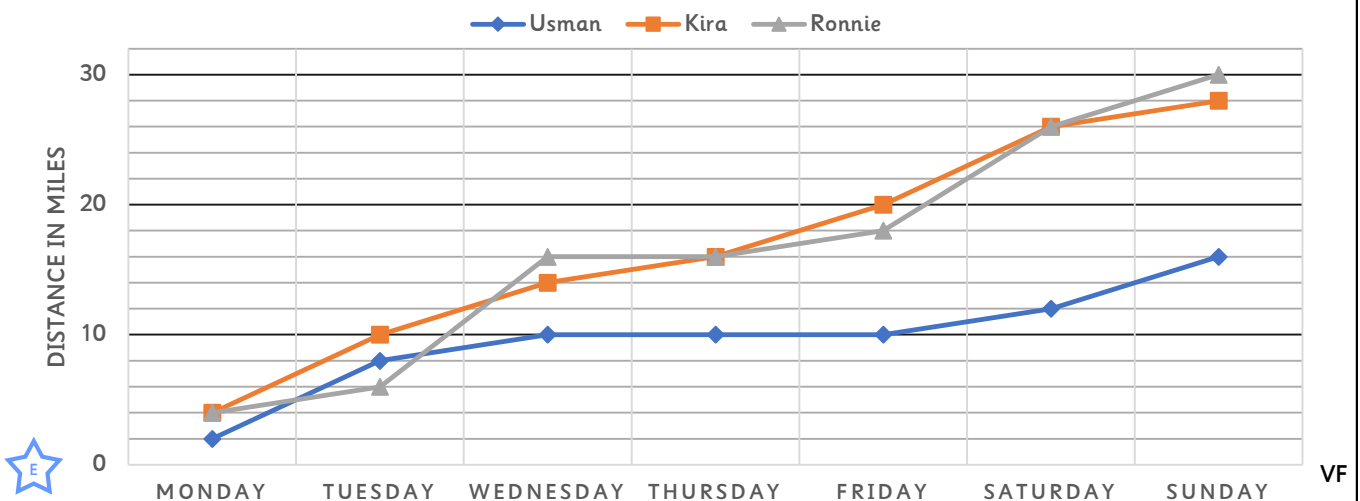


5a. How much more money did Awais have than Zoe in 2017?



6a. Which child did not cycle from Wednesday to Friday?

DISTANCE CYCLED BY CHILDREN IN ONE WEEK



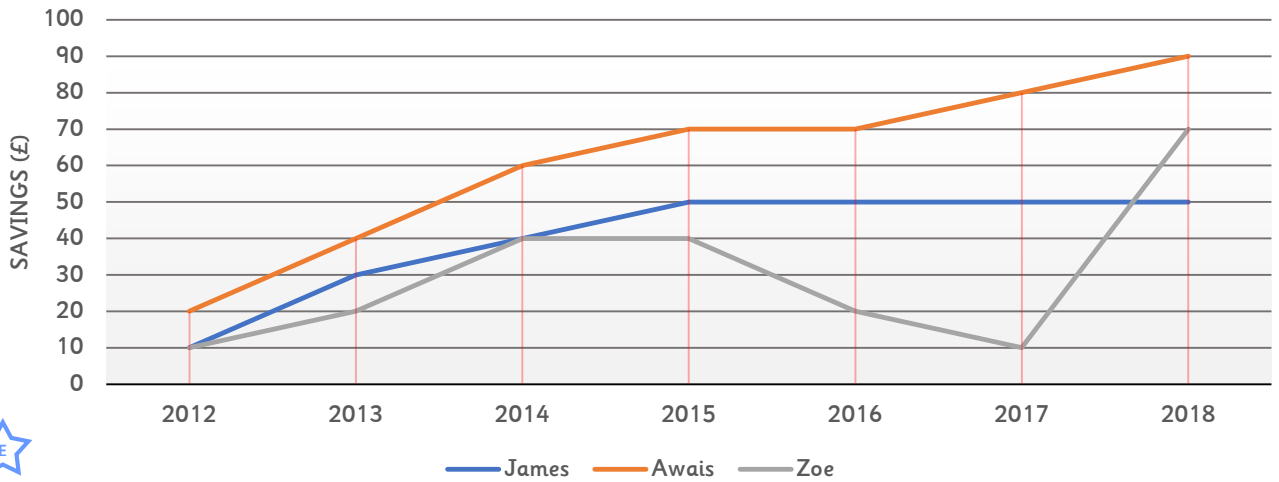
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# Varied Fluency – Use Line Graphs to Solve Problems

4b. How much did Zoe's savings drop from 2015 to 2017?

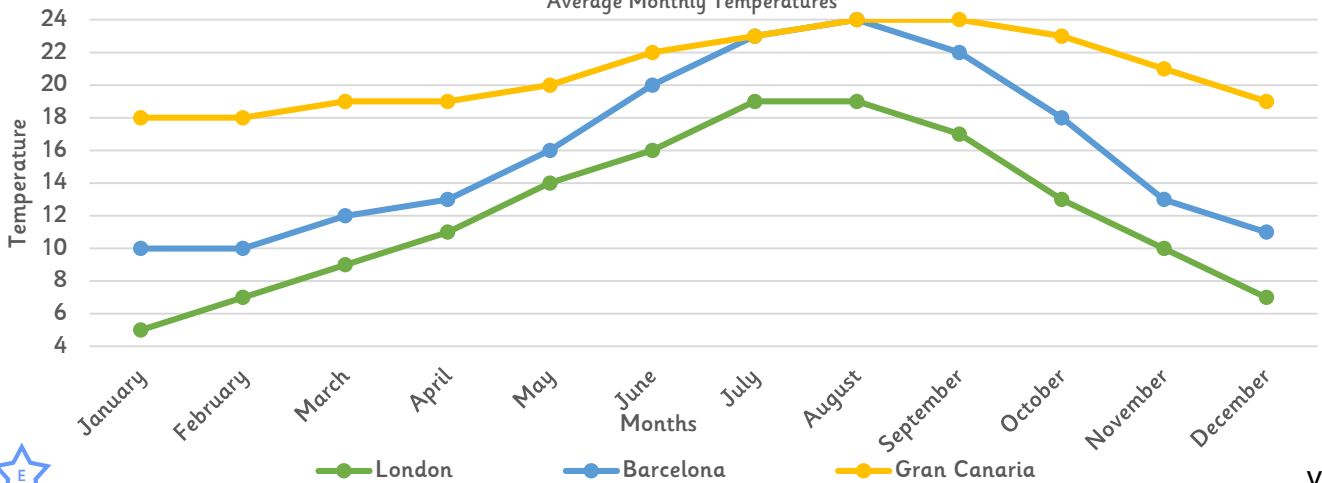
Children's Savings



VF

5b. How much hotter is it in Gran Canaria than in London in February?

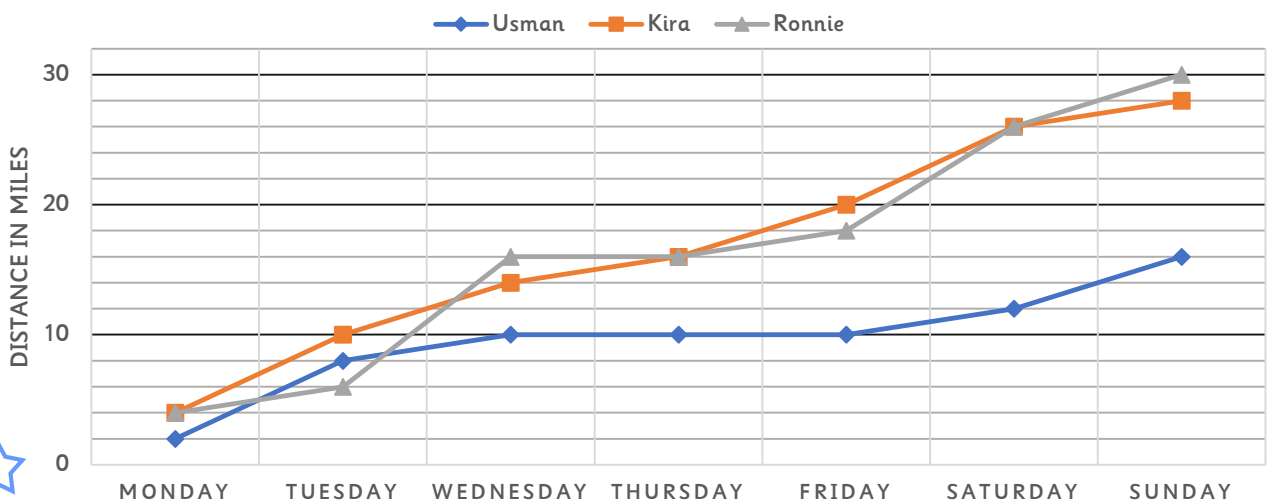
Average Monthly Temperatures



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6b. How far had each child cycled by the end of the week?

DISTANCE CYCLED BY CHILDREN IN ONE WEEK



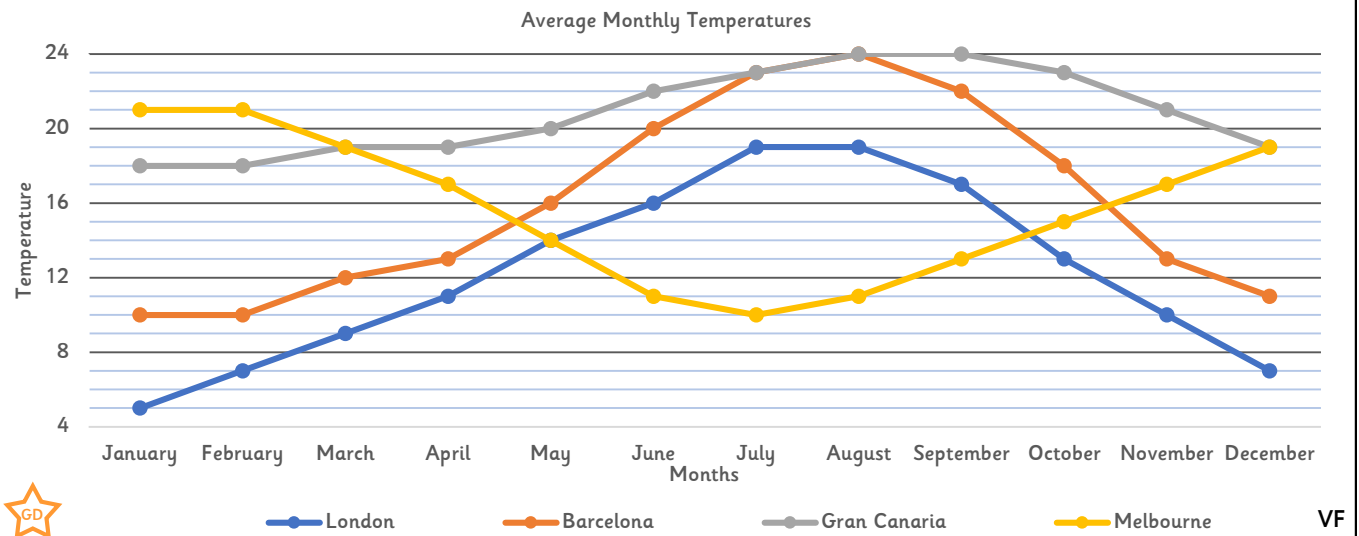
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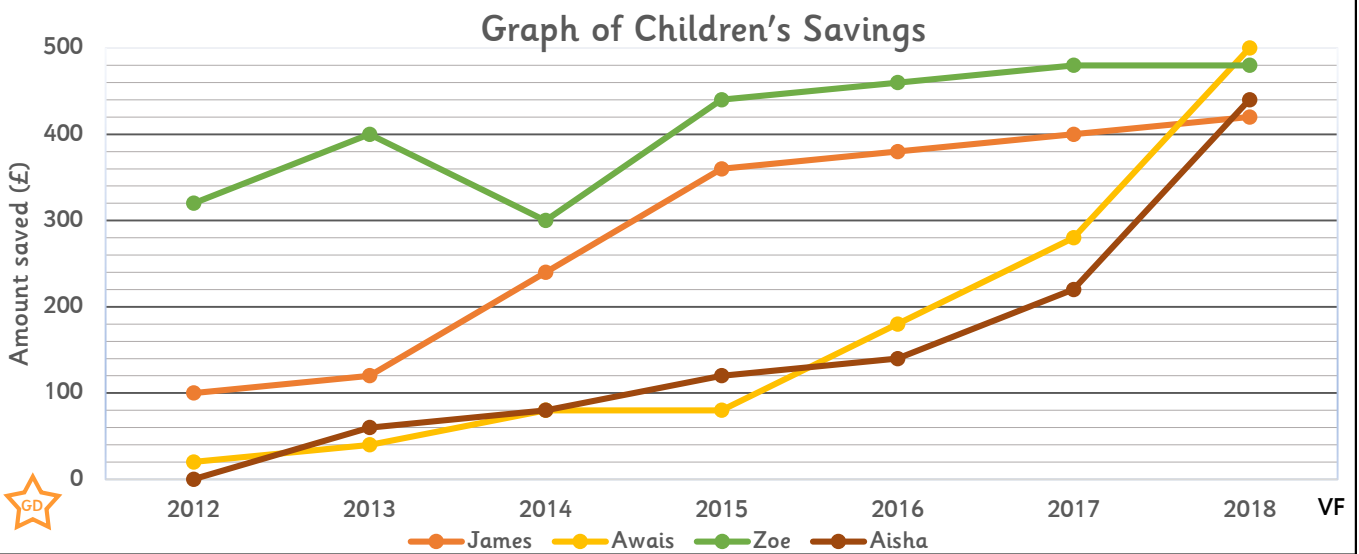
Varied Fluency – Use Line Graphs to Solve Problems – Year 6 Expected

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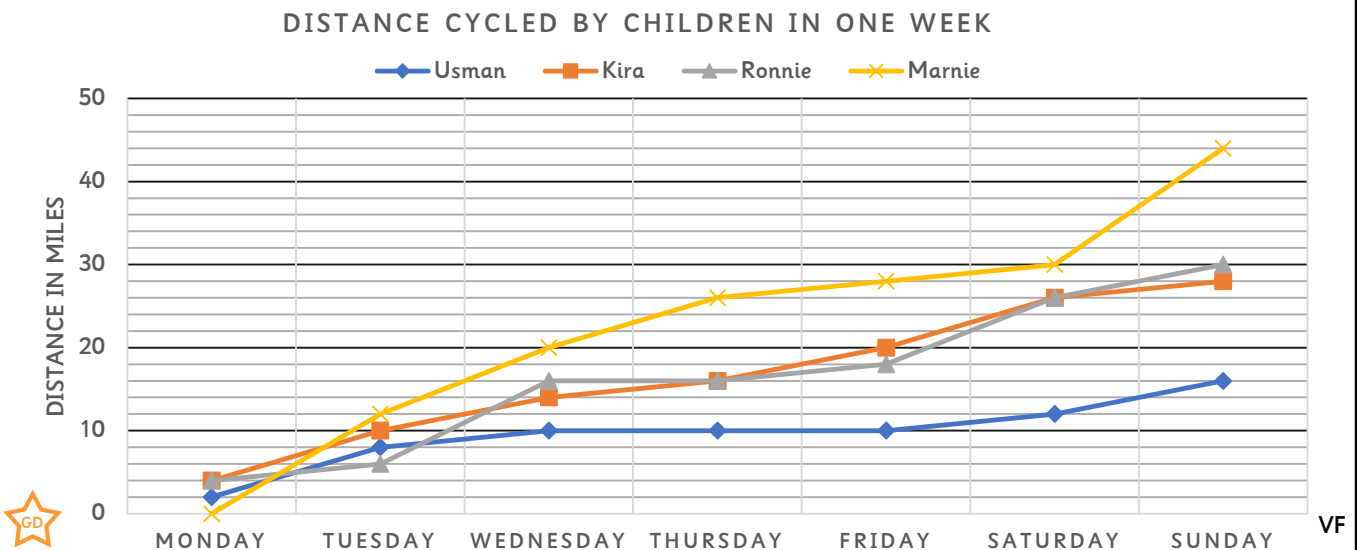
7a. What is the temperature in each place in July?



8a. How much more money did Aisha have than Awais in 2015?

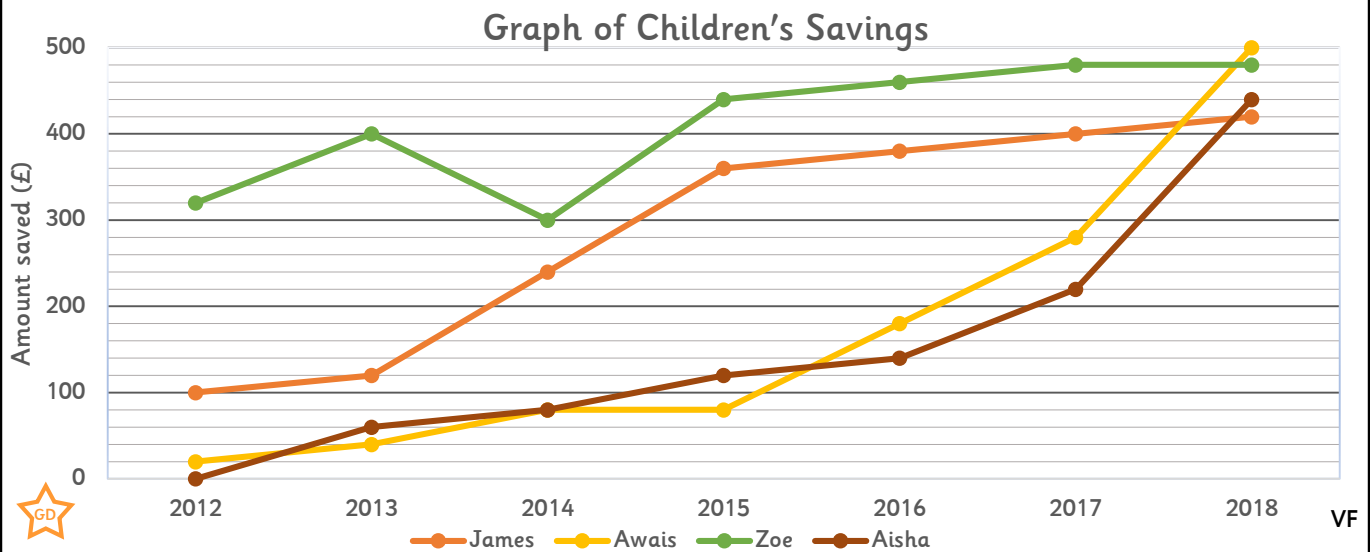


9a. Who cycled the furthest from Saturday to Sunday?

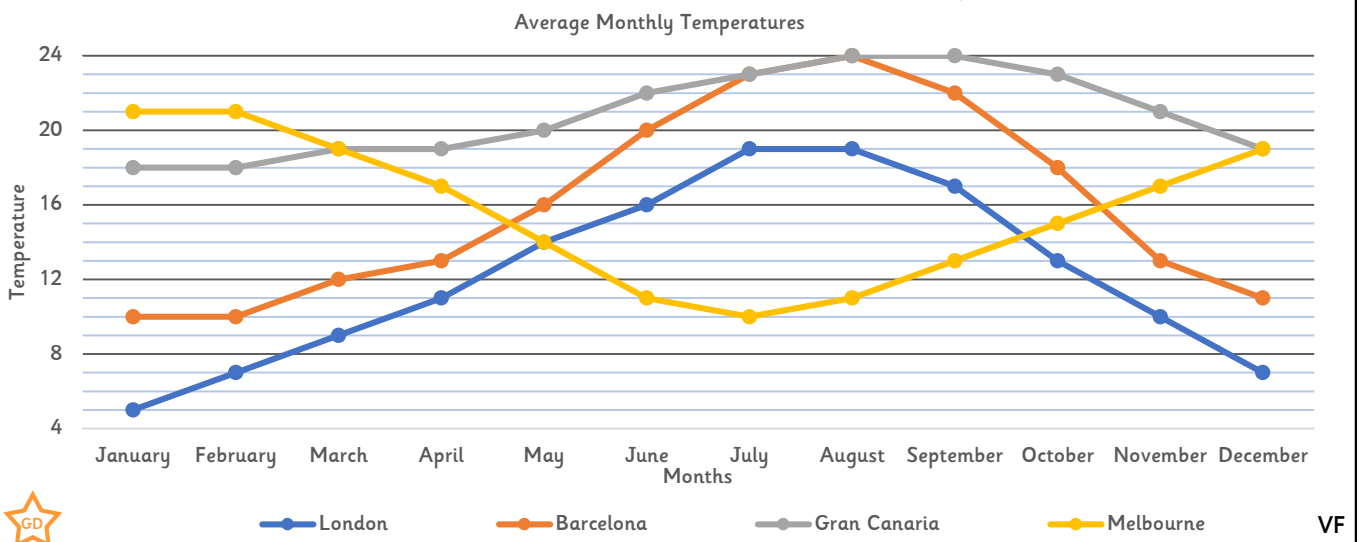


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7b. How much did each child have in savings in 2012?

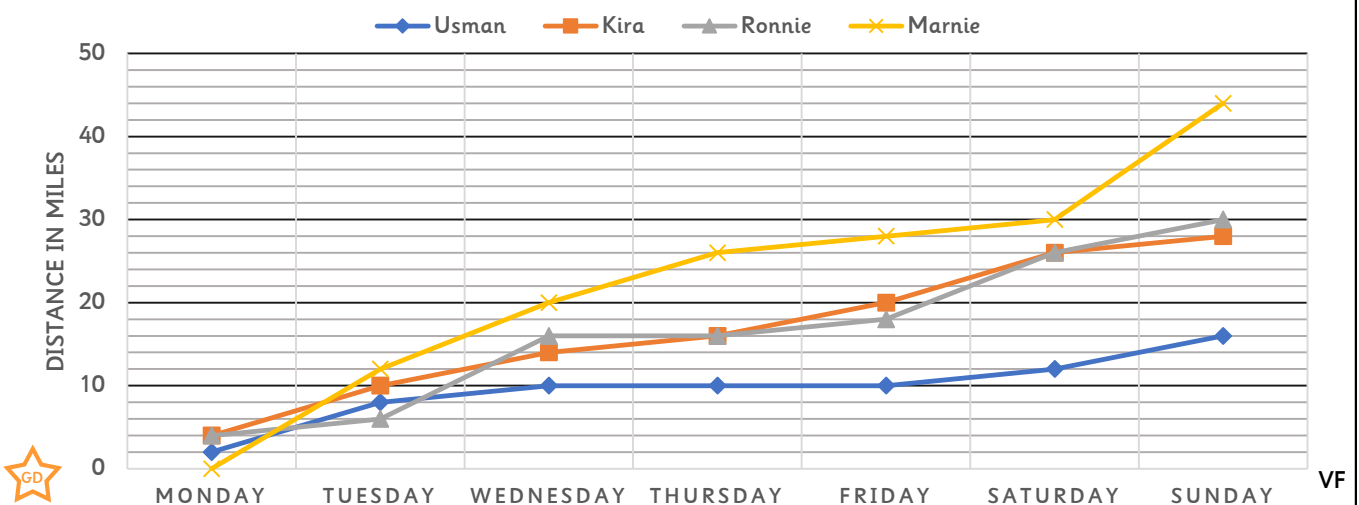


8b. How much hotter is Melbourne than London in January?



9b. How far had each child cycled by the end of the week?

**DISTANCE CYCLED BY CHILDREN IN ONE WEEK**



# Varied Fluency – Use Line Graphs to Solve Problems

## Developing

- 1a. August
- 1b. £70
- 2a. £30
- 2b. 4°C
- 3a. 10
- 3b. Usman

## Expected

- 4a. London – 7°C, Barcelona – 11°C, Gran Canaria – 19°C
- 4b. £30
- 5a. £70
- 5b. 11°C
- 6a. Usman
- 6b. Usman – 16 miles, Kira – 28 miles, Ronnie – 30 miles

## Greater Depth

- 7a. London – 19°C, Barcelona – 23°C, Gran Canaria – 23°C, Melbourne – 10°C
- 7b. James – £100, Awais – £20, Zoe – £320, Aisha – £0
- 8a. £40
- 8b. 16°C
- 9a. Marnie
- 9b. Usman – 16 miles, Kira – 28 miles, Ronnie – 30 miles, Marnie – 44 miles