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.

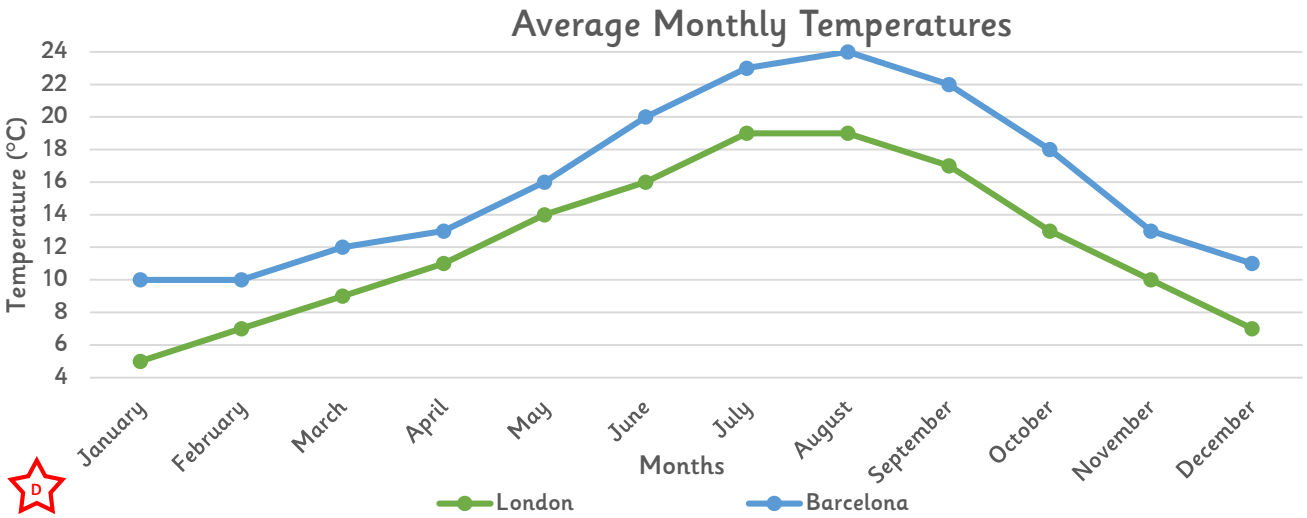
More resources which follow the same small steps as White Rose.

Did you like this resource? Don't forget to review it on our website.

© Classroom Secrets Limited 2018

Varied Fluency – Use Line Graphs to Solve Problems

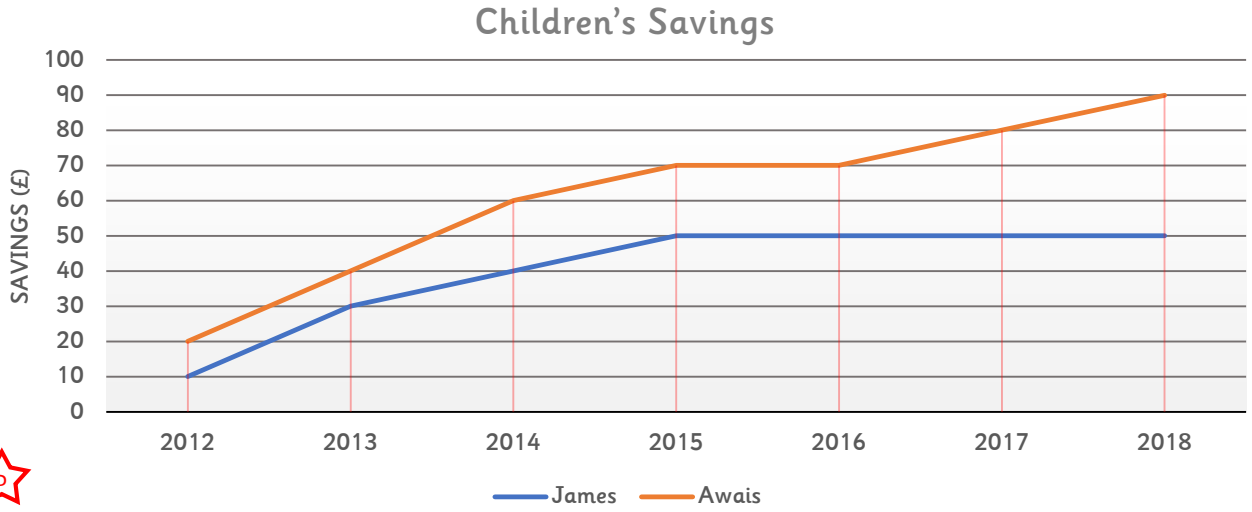
1a. When is Barcelona usually at its highest temperature?



D

VF

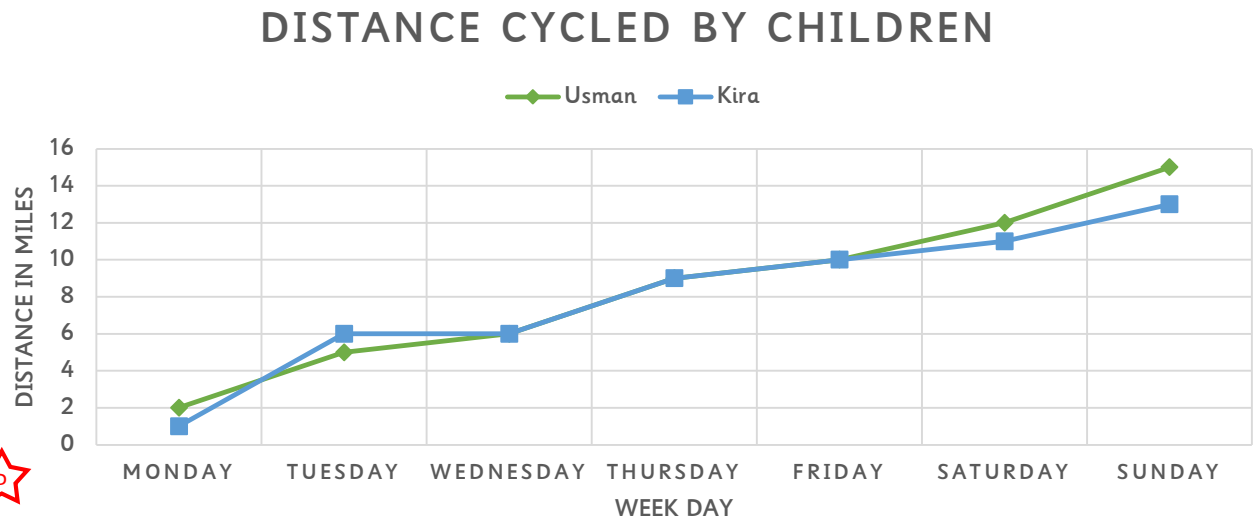
2a. How much more money had Awais saved than James in 2017?



D

VF

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



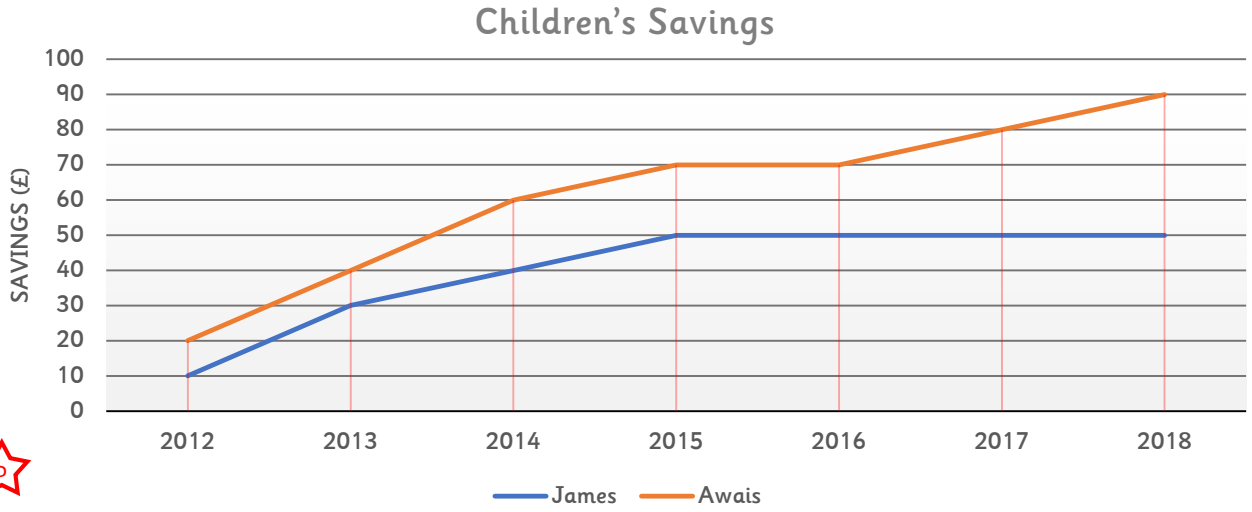
D

VF

© Classroom Secrets Limited 2018

Varied Fluency – Use Line Graphs to Solve Problems

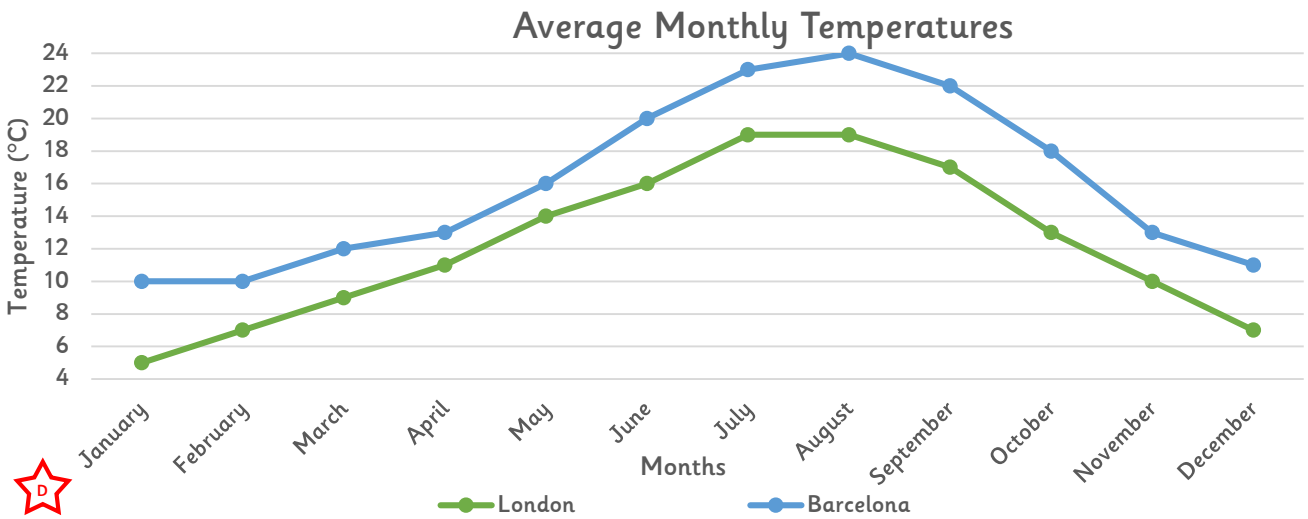
1b. How much money had Awais saved by 2015?



D

VF

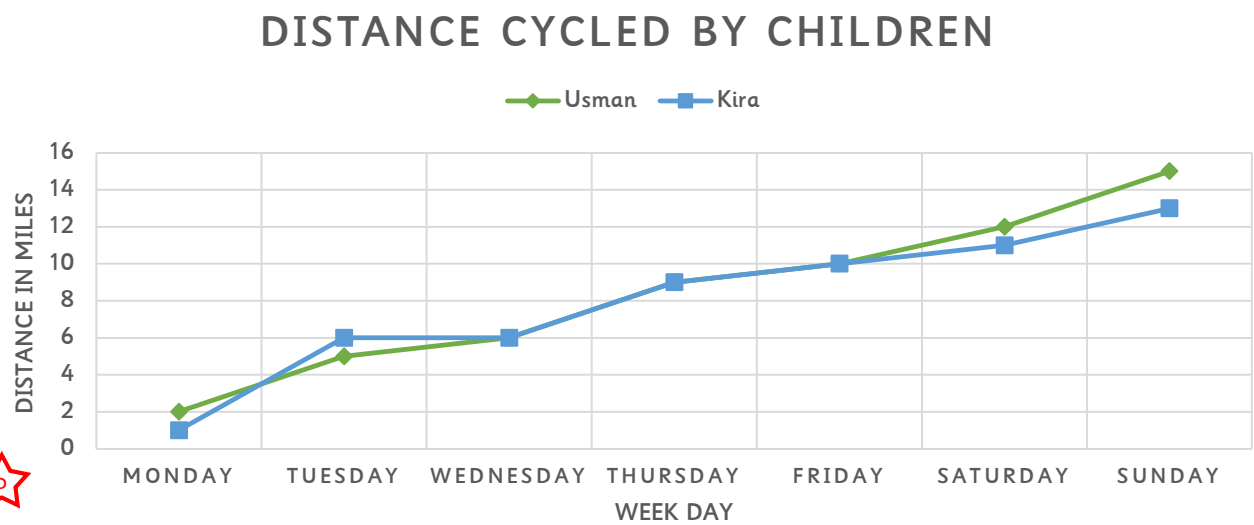
2b. What is the difference in temperature between London and Barcelona in July?



D

VF

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



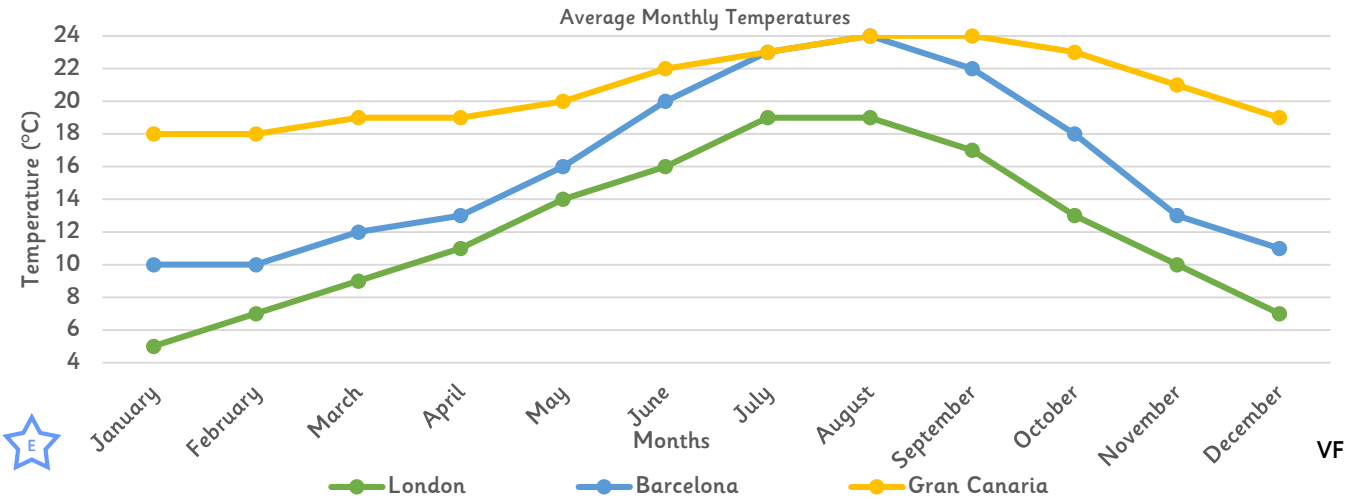
D

VF

© Classroom Secrets Limited 2018

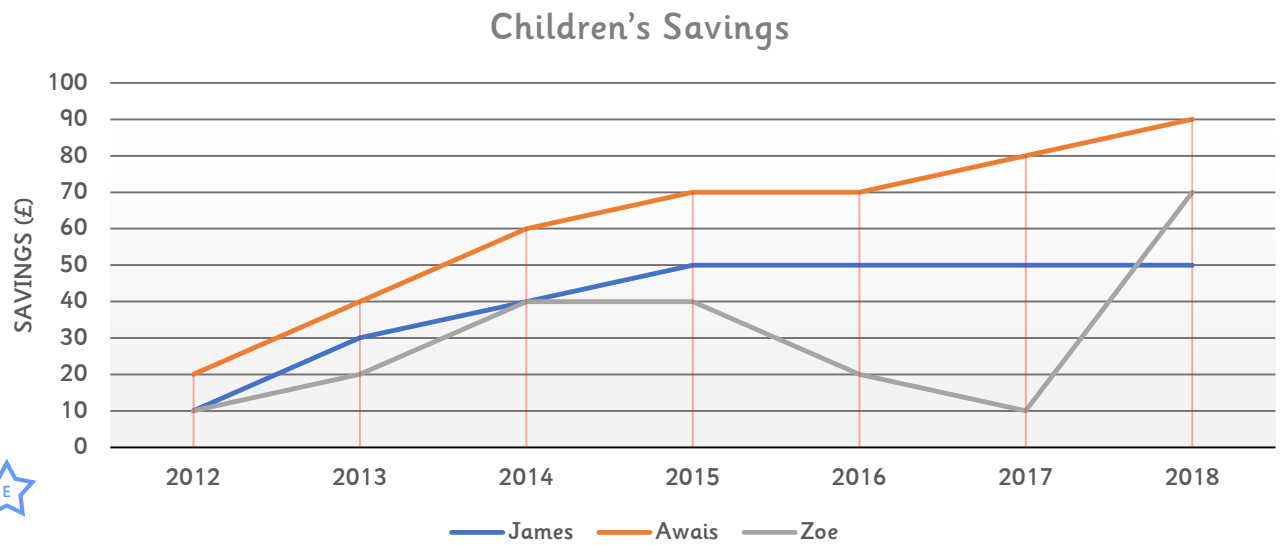
Varied Fluency – Use Line Graphs to Solve Problems

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



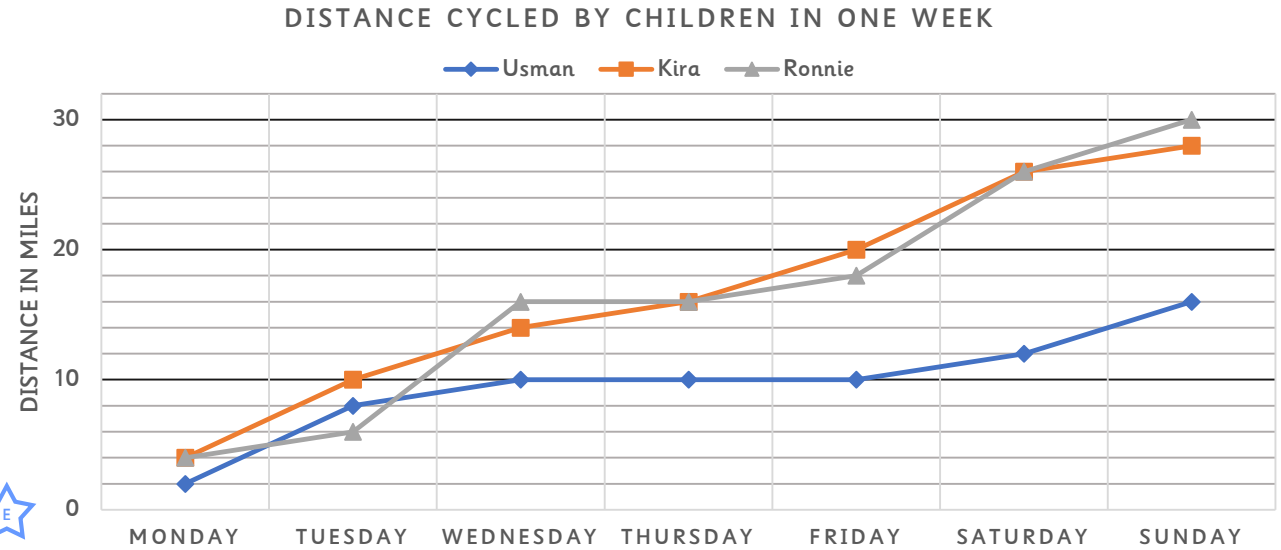
VF

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



VF

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

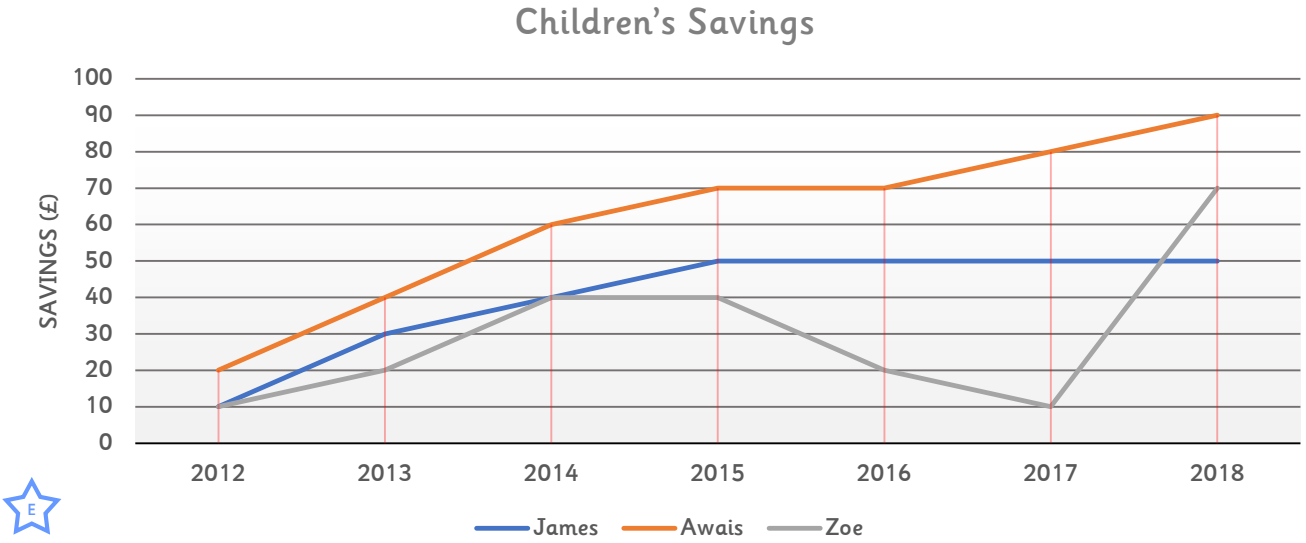


VF

© Classroom Secrets Limited 2018

Varied Fluency – Use Line Graphs to Solve Problems

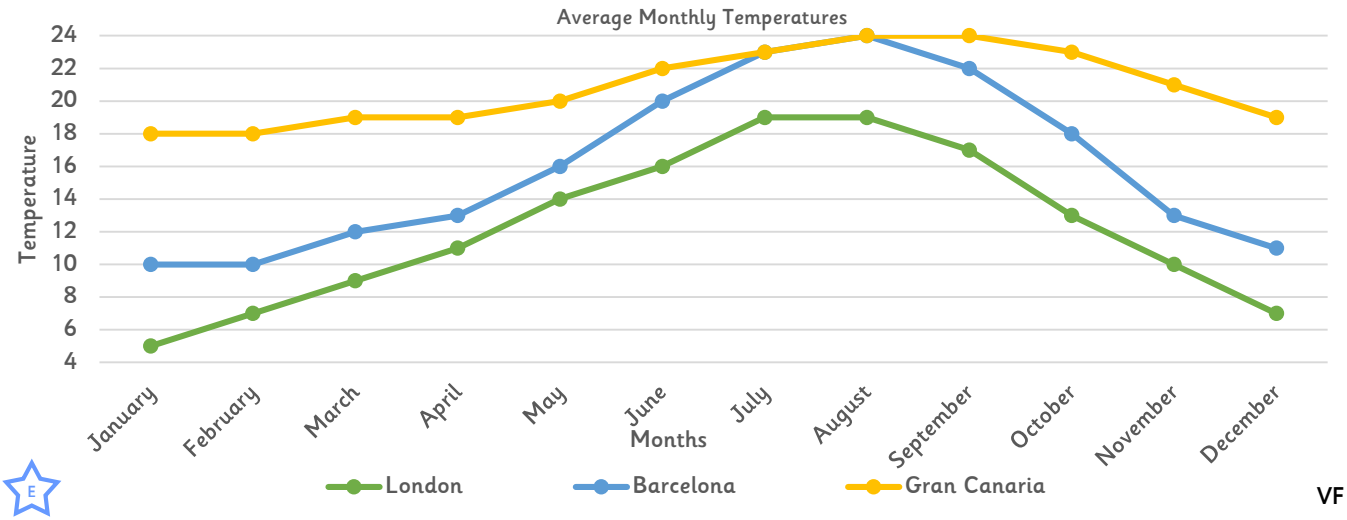
4b. How much did Zoe's savings drop from 2015 to 2017?



E

VF

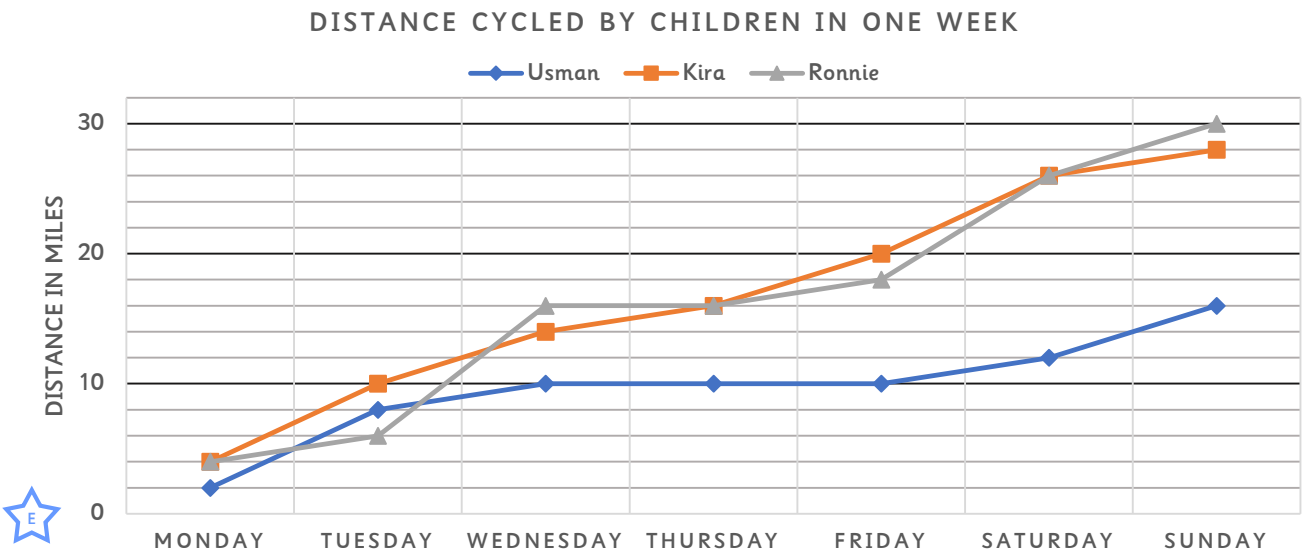
5b. How much hotter is it in Gran Canaria than in London in February?



E

VF

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



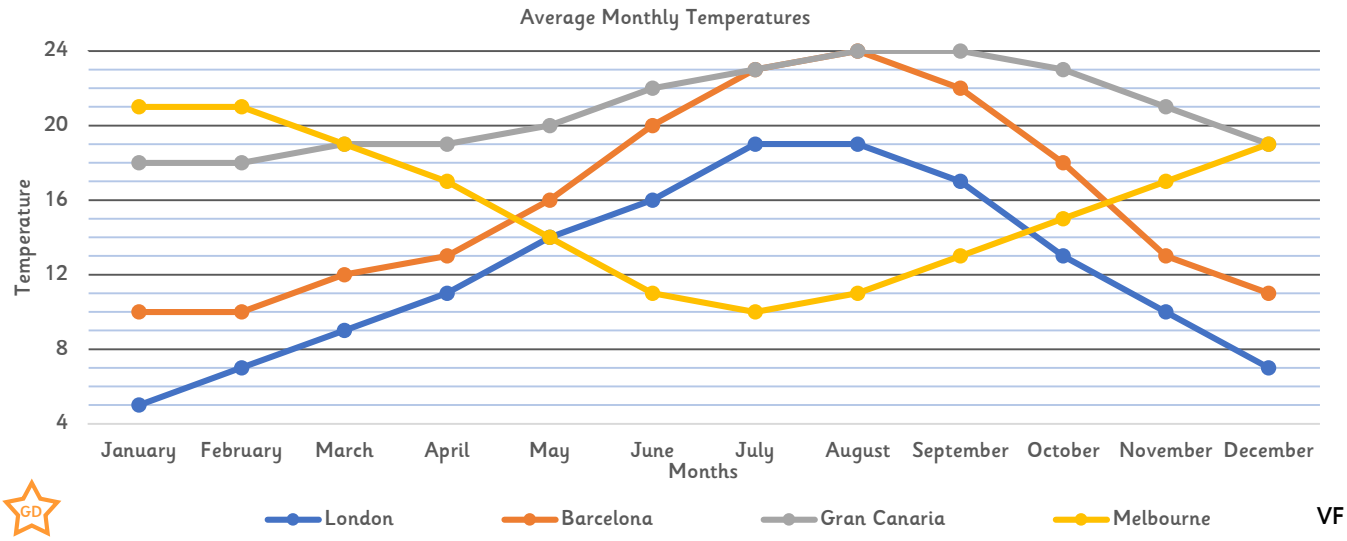
E

VF

© Classroom Secrets Limited 2018

Varied Fluency – Use Line Graphs to Solve Problems

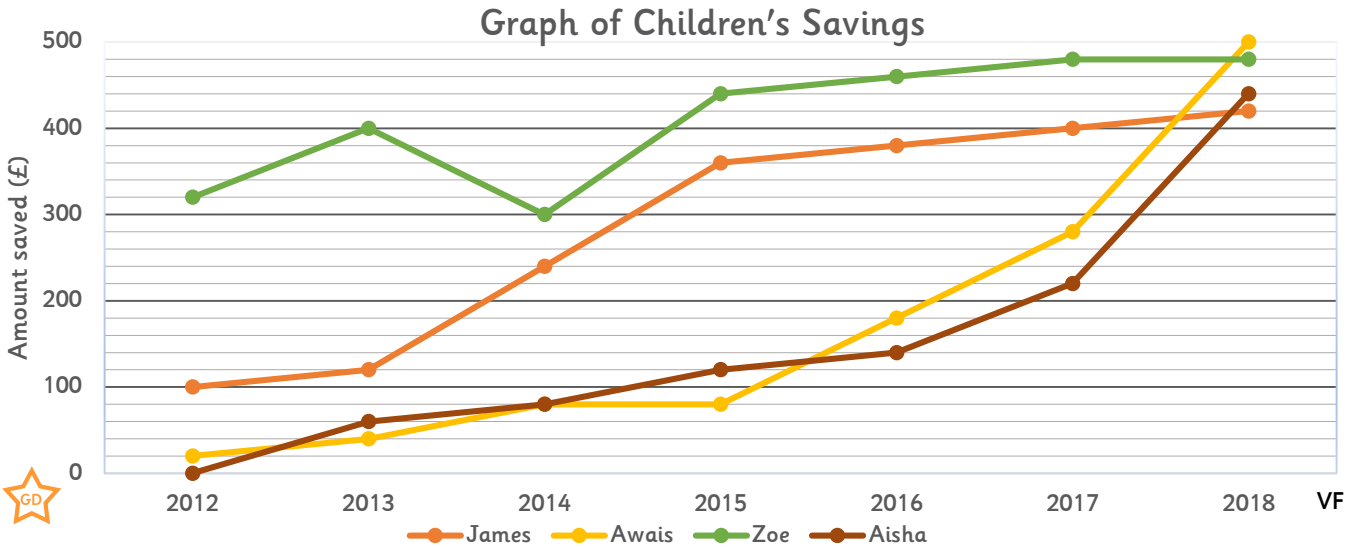
7a. What is the temperature in each place in July?



GD

VF

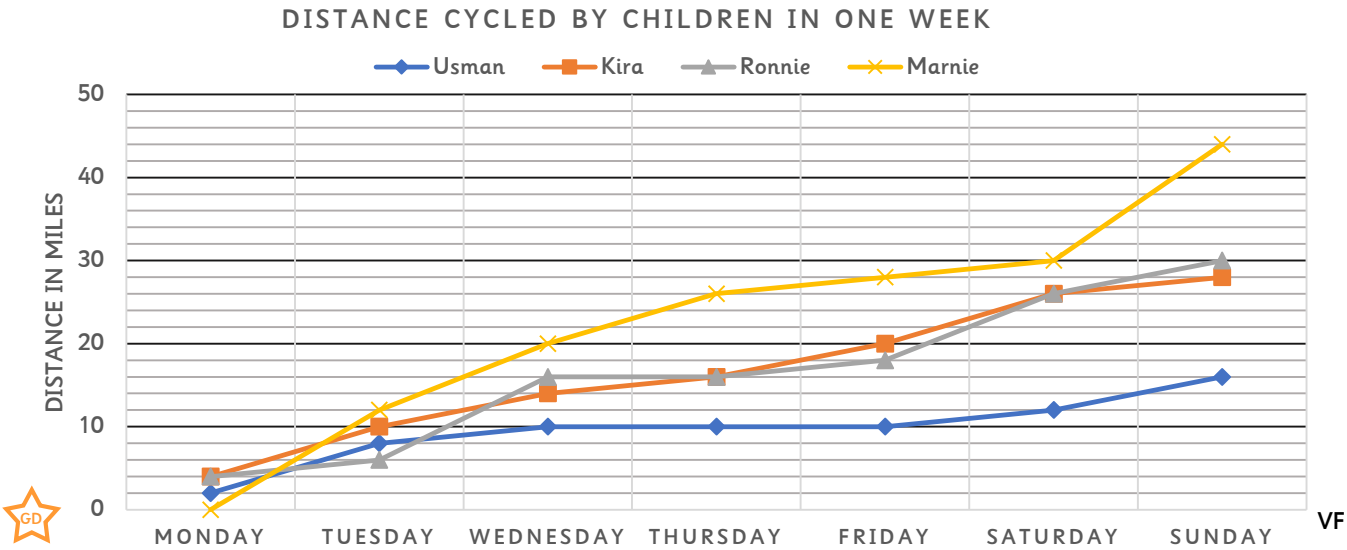
8a. How much more money did Aisha have than Awais in 2015?



GD

VF

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



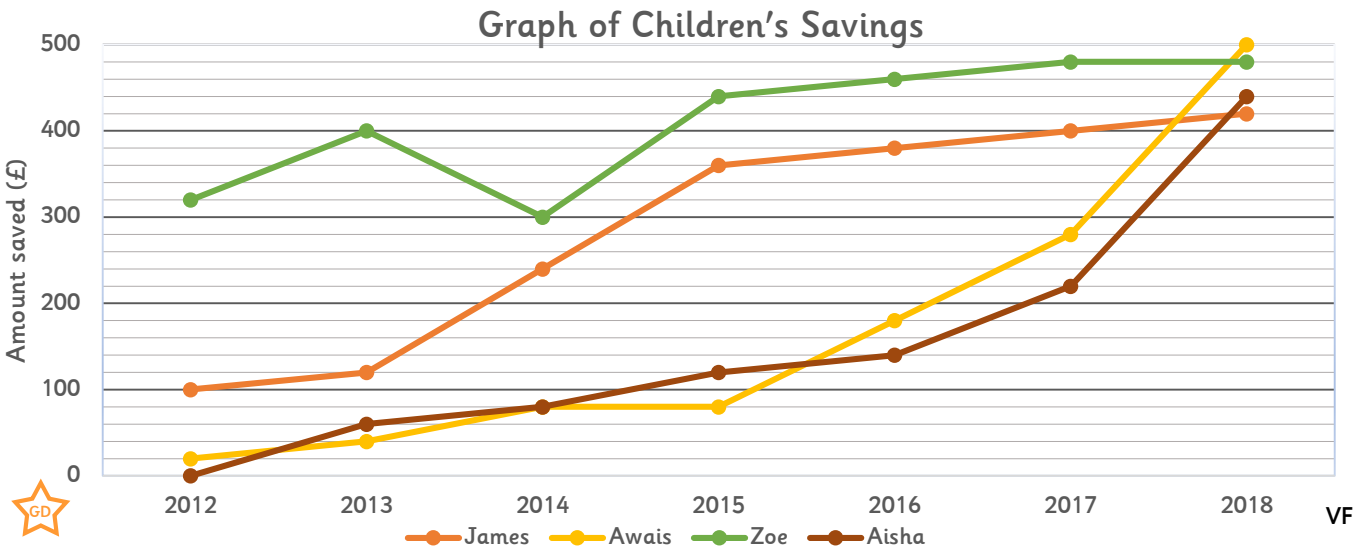
GD

VF

© Classroom Secrets Limited 2018

Varied Fluency – Use Line Graphs to Solve Problems

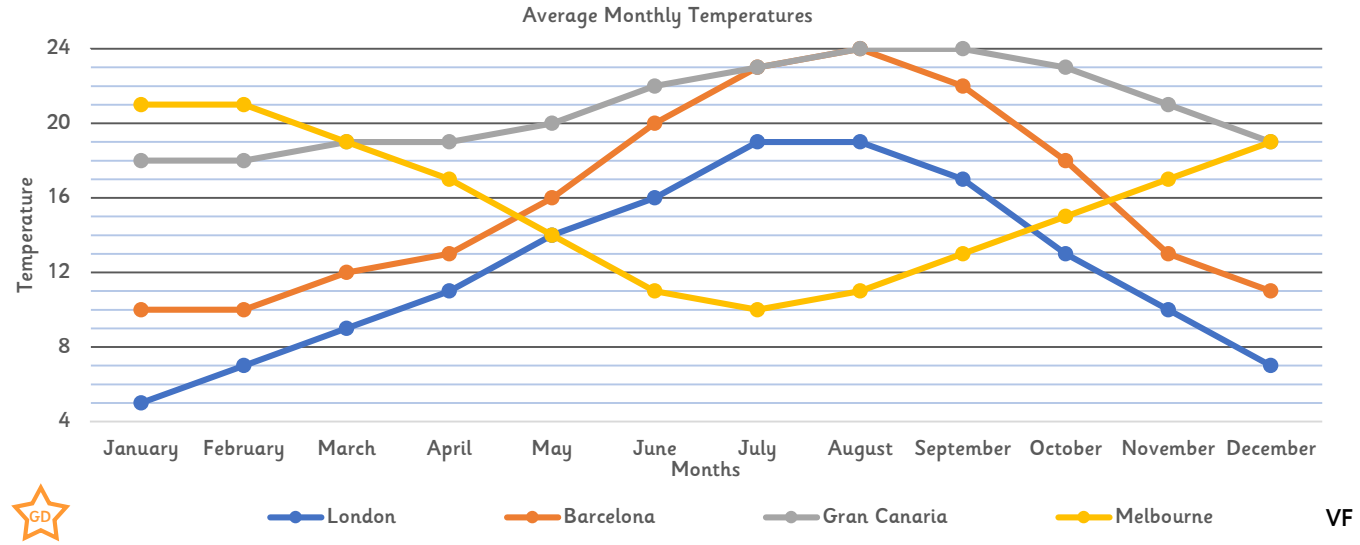
7b. How much did each child have in savings in 2012?



GD

VF

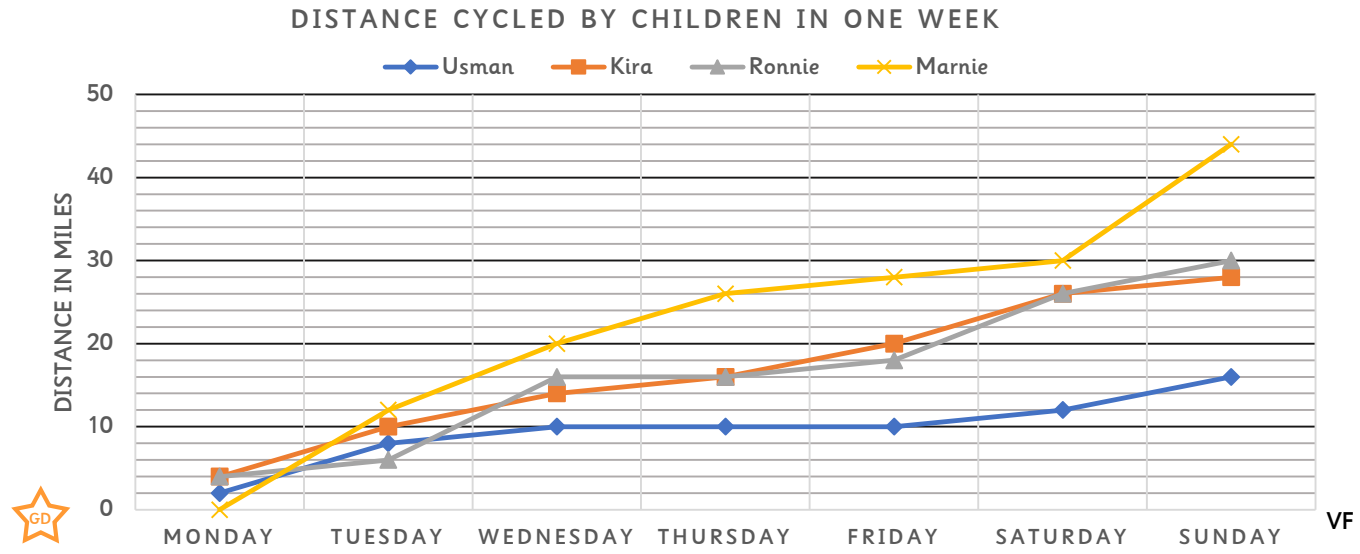
8b. How much hotter is Melbourne than London in January?



GD

VF

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



GD

VF

© Classroom Secrets Limited 2018

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

© Classroom Secrets Limited 2018