

Year 5 Statistics

Q1.

Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34

How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

minutes

1 mark

Mr Evans is at Fordham at 10:30

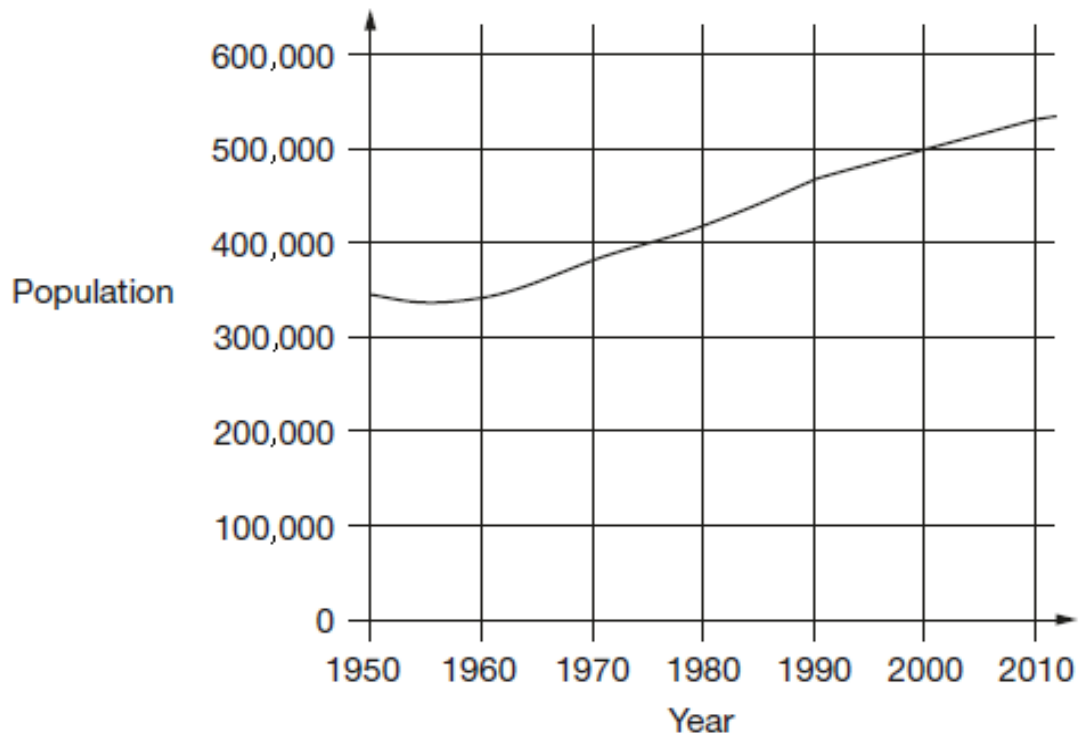
What is the **earliest** time he can reach Tremont on the bus?

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1 mark

Q2.

This chart shows the population of Cornwall from 1950 to 2010.



Look at the chart.

In which year did the population first reach 400,000?

1 mark

How much did the population increase from 1950 to 2000?

1 mark

What was the population of Cornwall in 2010?

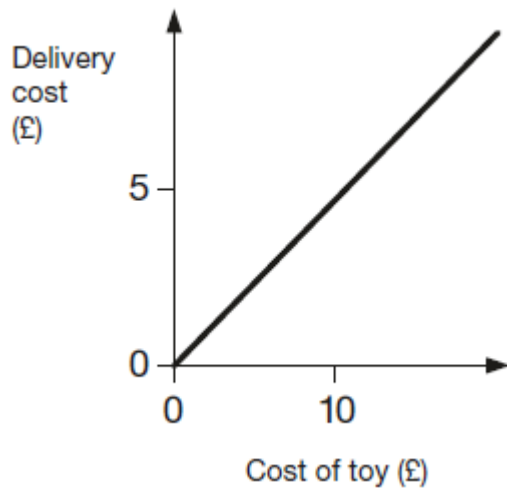
1 mark

Q3.

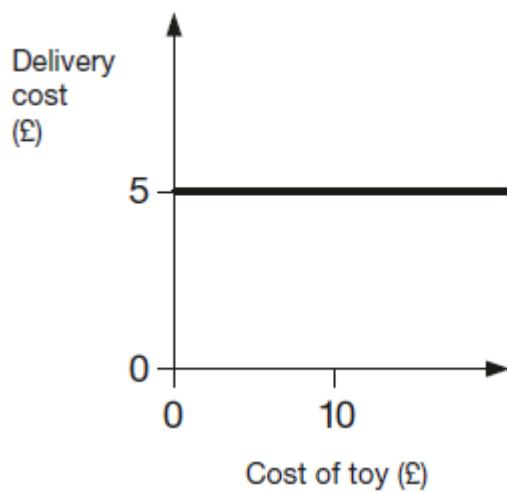
Two companies sell toys online. They charge to deliver.

Describe the delivery cost of the second company.

The first company is done for you.



The more a toy costs, the more
the delivery costs.



1 mark

Q4.

Amy did a survey of what time people get up on a Sunday morning. This table shows her results for 150 people.

Time	number of people
before 7 am	13
7:00 am to 7:59 am	28
8:00 am to 8:59 am	59

9:00 am to 9:59 am	36
10 am and after	14

Look at the table.

How many people get up at **8 am or later**?

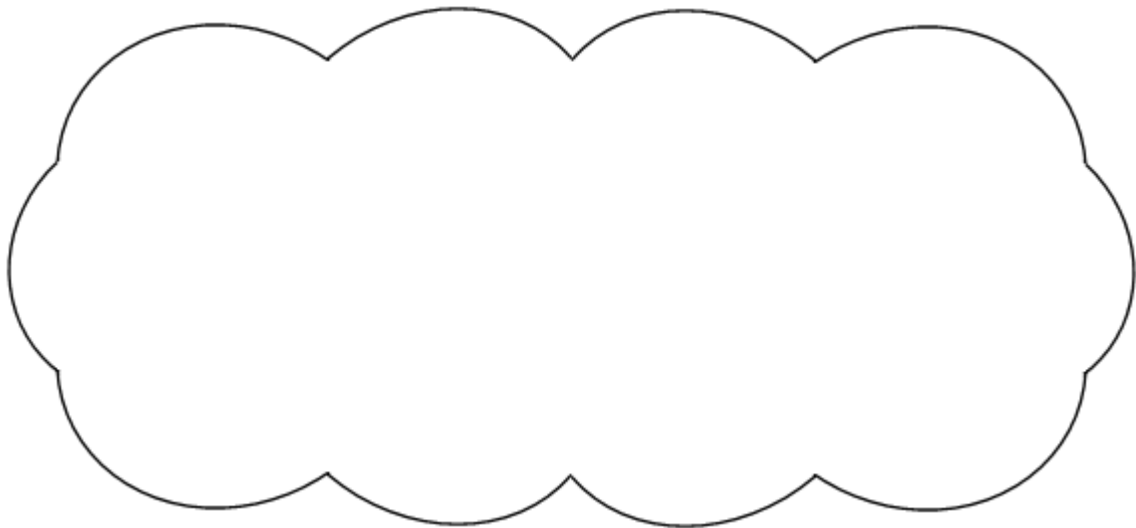
1 mark

Amy says,

'Two-thirds of the 150 people in the survey get up before 9 am.'

Amy is correct.

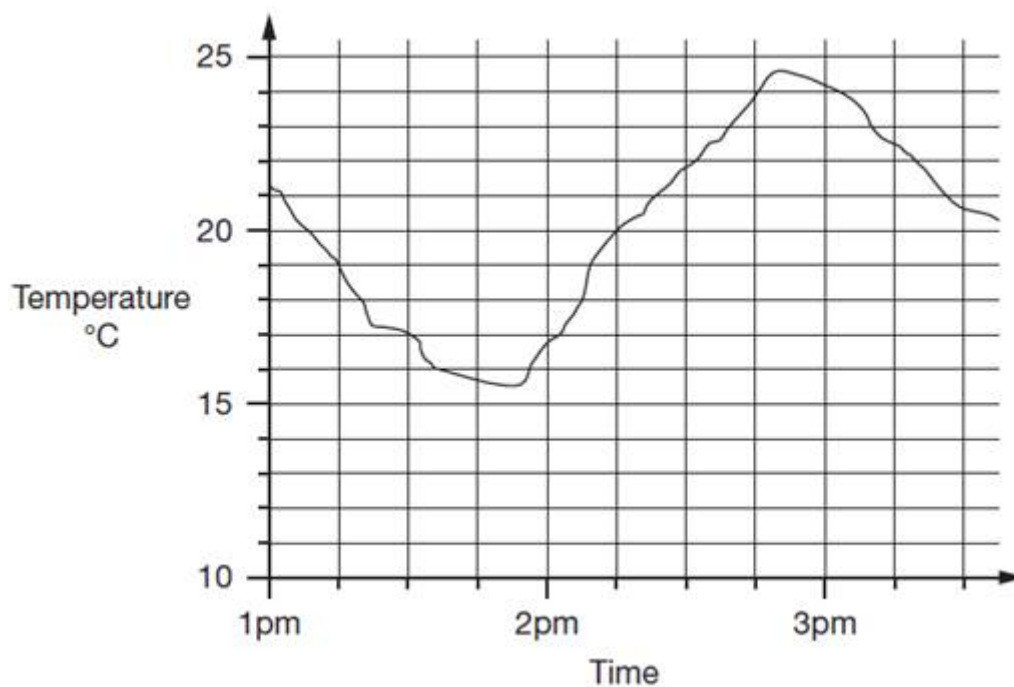
Explain how you know.



1 mark

Q5.

This graph shows how the temperature changed in Liam's room one afternoon.



Estimate the temperature at 3:15pm.

°C

1 mark

Estimate the time when the temperature was highest.

pm

1 mark

How much did the temperature change from 2pm to 2:30pm? Give your answer to the nearest degree.

degrees

1 mark

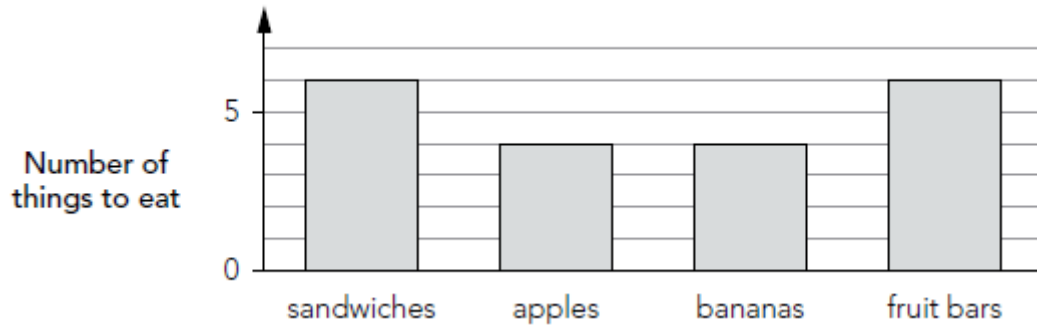
Q6.

This table shows the number of things to eat in **five** children's lunch boxes.

	sandwiches	apples	bananas	fruit bars
Lisa	1	2	0	2

Jack	2	0	2	1
Kemi	1	1	0	2
Nik	1	2	1	0
Ben	2	1	2	1

Here is a graph of the information for **four** of the children.



Which child's information is missing from the graph?

Explain how you know.

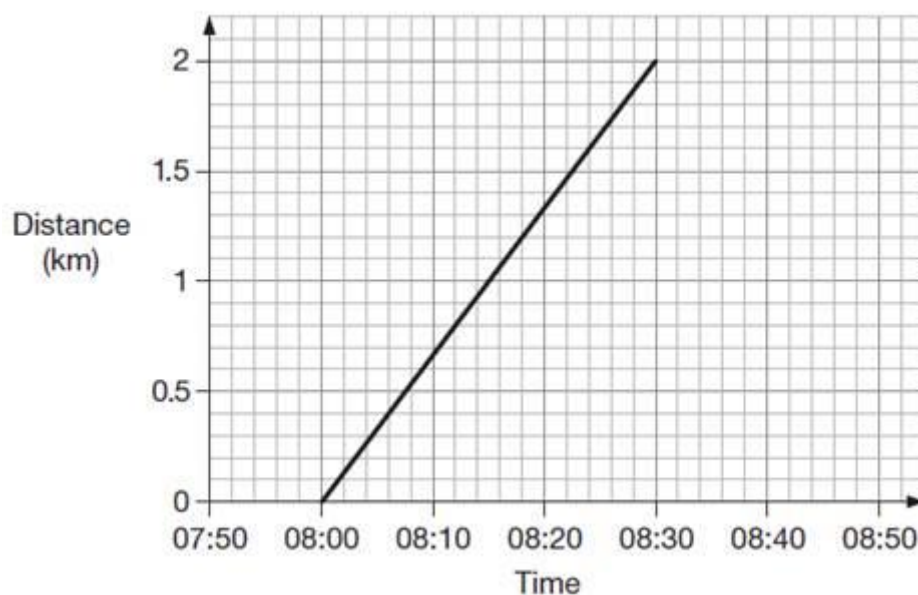
1 mark

Q7.

Alfie and his brother walked from home to their school.

Their school is 2 kilometres from home.

The graph shows information about **Alfie's** journey.



- (a) How does the graph show that Alfie walked at a **constant speed** for all of his journey?

1 mark

- (b) Alfie's brother left home **10 minutes before** Alfie.

He arrived at school **20 minutes after** Alfie.

He walked at a **constant speed** for all of his journey.

At what time did Alfie overtake his brother?

1 mark

Q8.

Here is a sorting diagram with four sections, **A**, **B**, **C** and **D**.

	multiple of 10	not a multiple of 10
multiple of 20	A	B
not a multiple of 20	C	D

Write a number that could go in section **C**.

1 mark

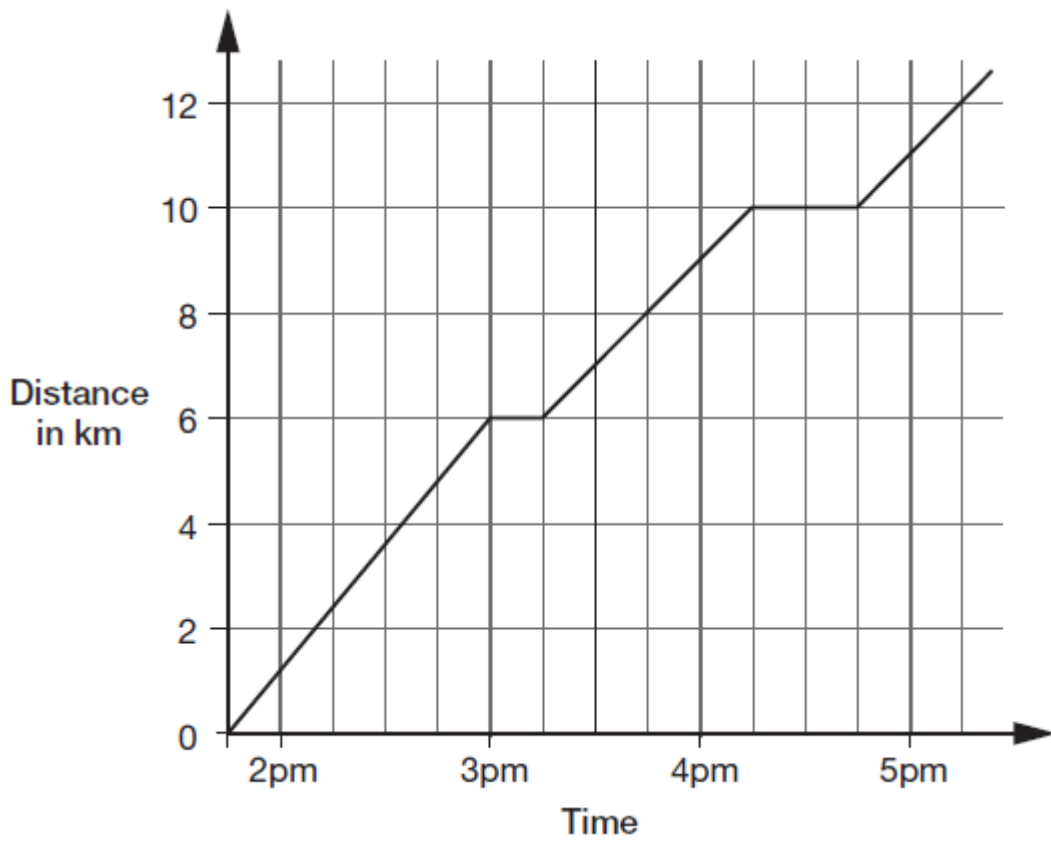
Section **B** can never have any numbers in it.

Explain why.

1 mark

Q9.

This graph shows the distance Alfie and Chen walked in an afternoon. They started at 1:45pm and had two breaks.



How many kilometres did they walk **between** the first and second breaks?

 km

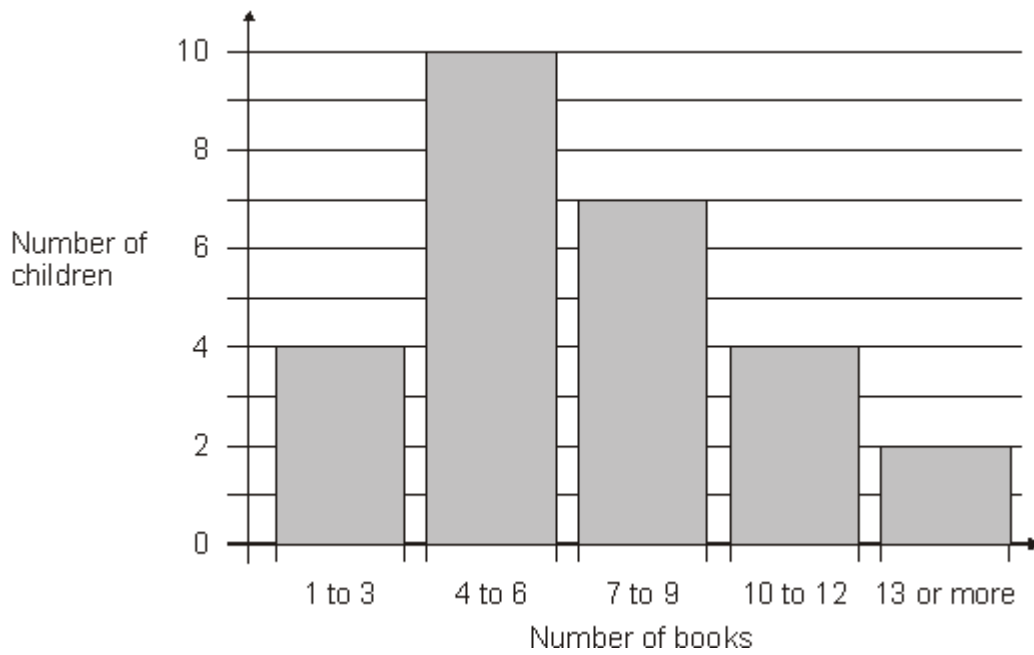
1 mark

At what time did Alfie and Chen start their second break?

1 mark

Q10.

This chart shows the number of books some children read last month.



How many children altogether read **more than 9 books**?

1 mark

7 children read 4 books.

1 child read 5 books.

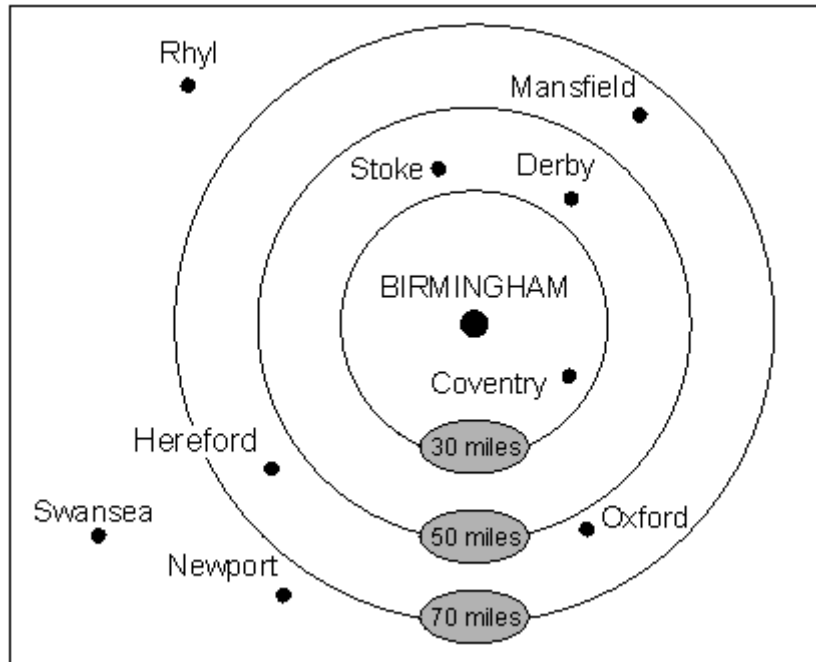
Lin says,

'That means 2 children read 6 books.'

Explain how she can work this out from the chart.

Q11.

This diagram shows the distances of different towns from Birmingham.



Write the name of a town which is **between 30 and 50 miles** from Birmingham.

1 mark

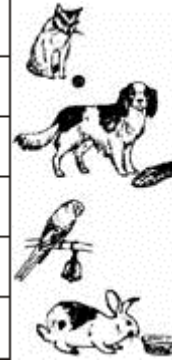
Use the diagram to estimate the distance in **miles** from **Birmingham** to **Mansfield**.

1 mark

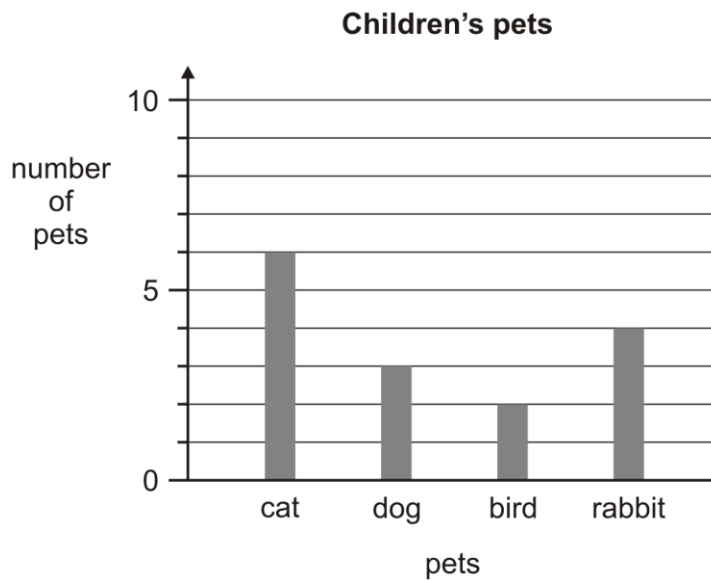
Q12.

Here is a table of the pets owned by **six** children.

Name of child	Cat	Dog	Bird	Rabbit
David	3	1	0	0
Julie	0	0	1	2
Carl	2	0	0	1
Terry	0	1	0	1
Mary	0	2	0	0
Hawa	1	0	1	1



Here is a graph of the pets of **five** of the children.

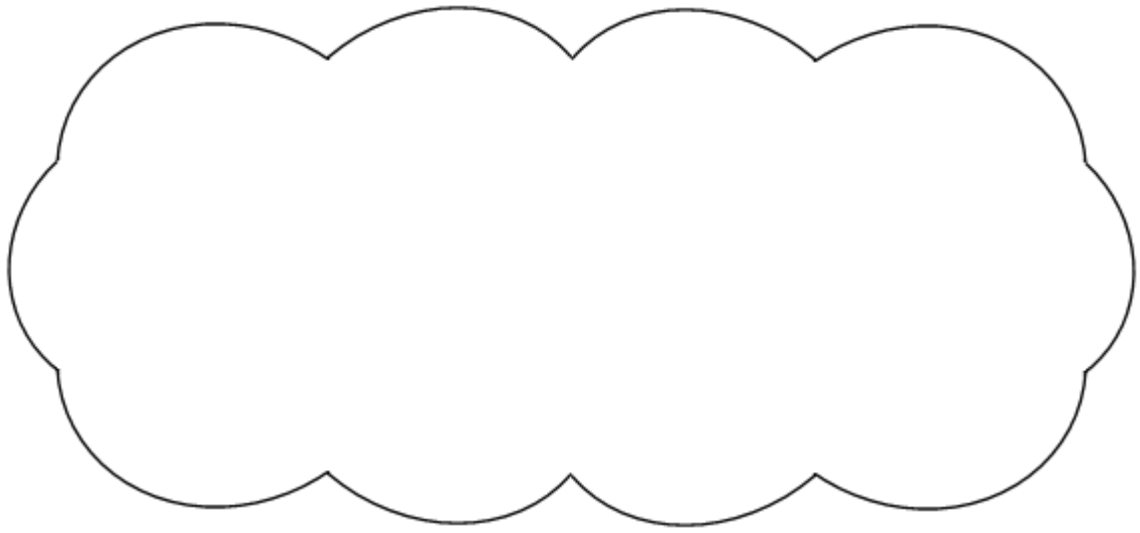


The pets of **one** of the children are not on the graph.

Whose pets are **not** on the graph?

1 mark

Explain how you know.



1 mark