

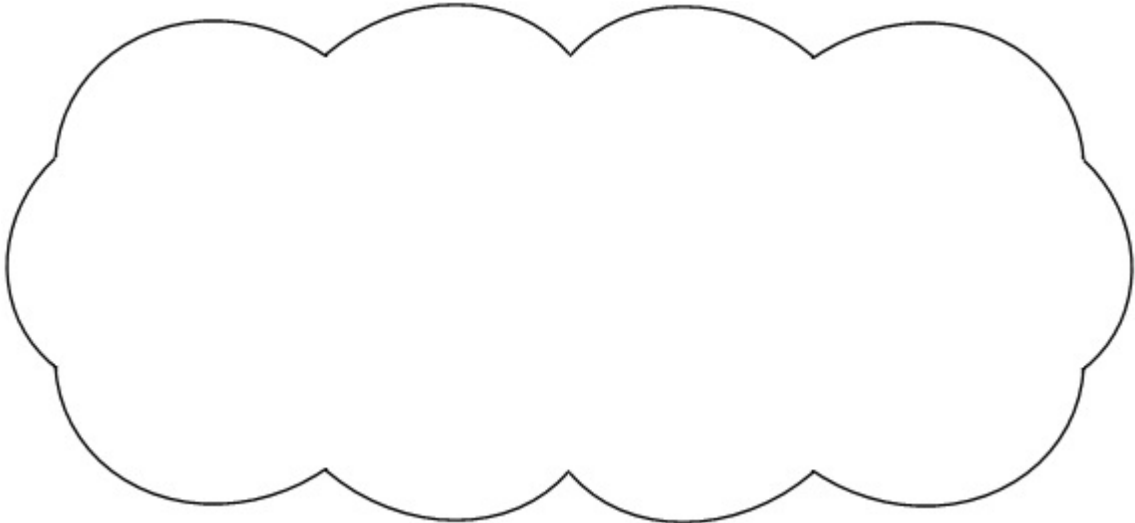
1

Adam says,

0.25 is smaller than $\frac{2}{5}$



Explain why he is correct.

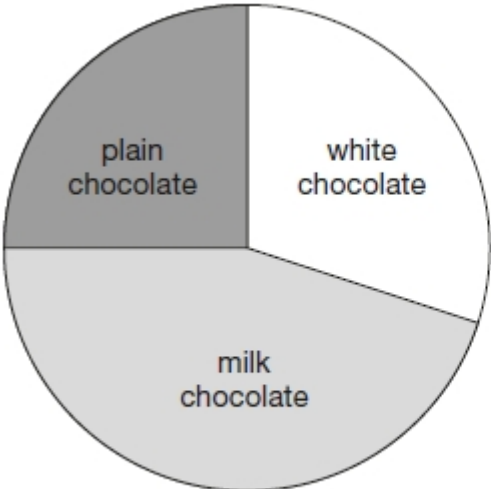


1 mark

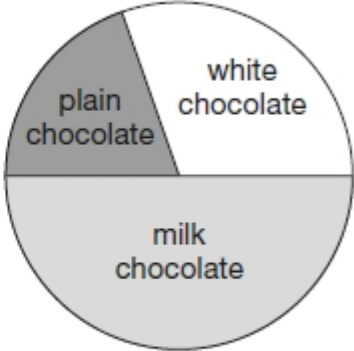
2

100 girls and 50 boys were asked which kind of chocolate they like best.

These two pie charts show the results.



100 girls



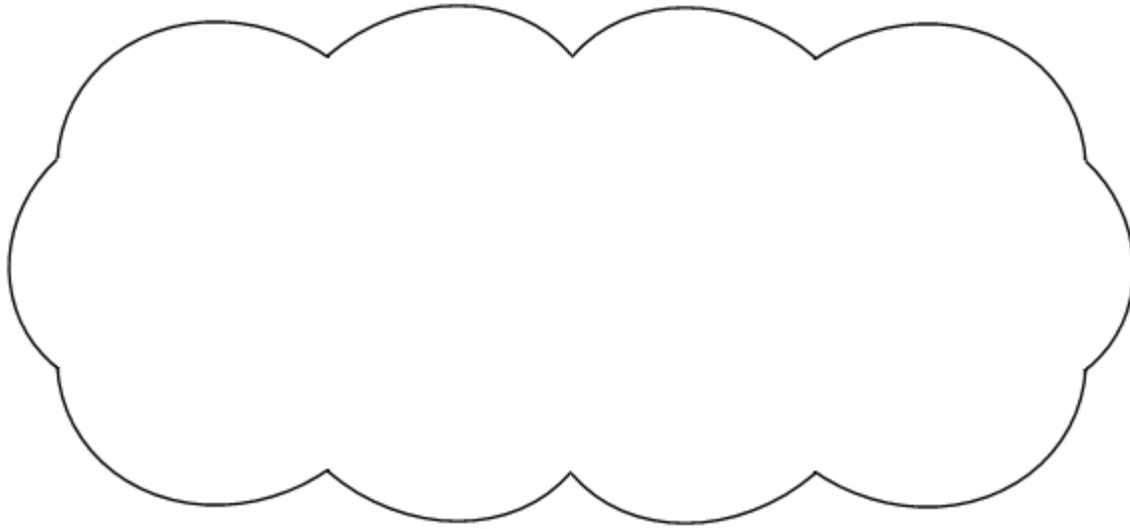
50 boys

Dev says:

"The pie charts show that more girls than boys liked milk chocolate best."

Dev is correct.

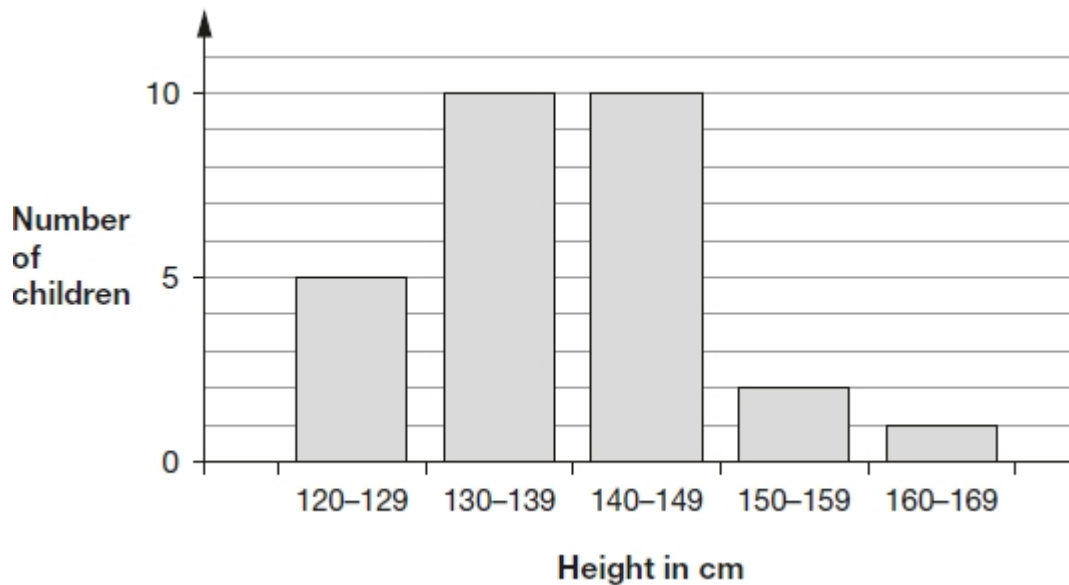
Explain how you know.



1 mark

3

The graph shows the heights of 28 children in Alfie's class, to the nearest centimetre.



Alfie is 153 cm tall.

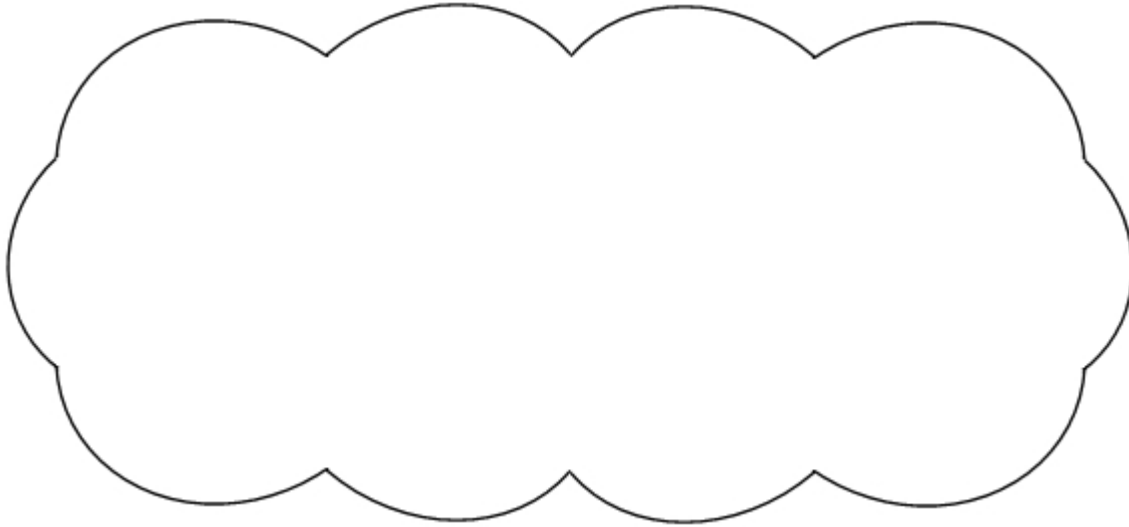
He says,

'Only one person in my class is taller than I am.'

Emma says,

'You can't tell this from the graph.'

Explain why Emma is correct.



1 mark

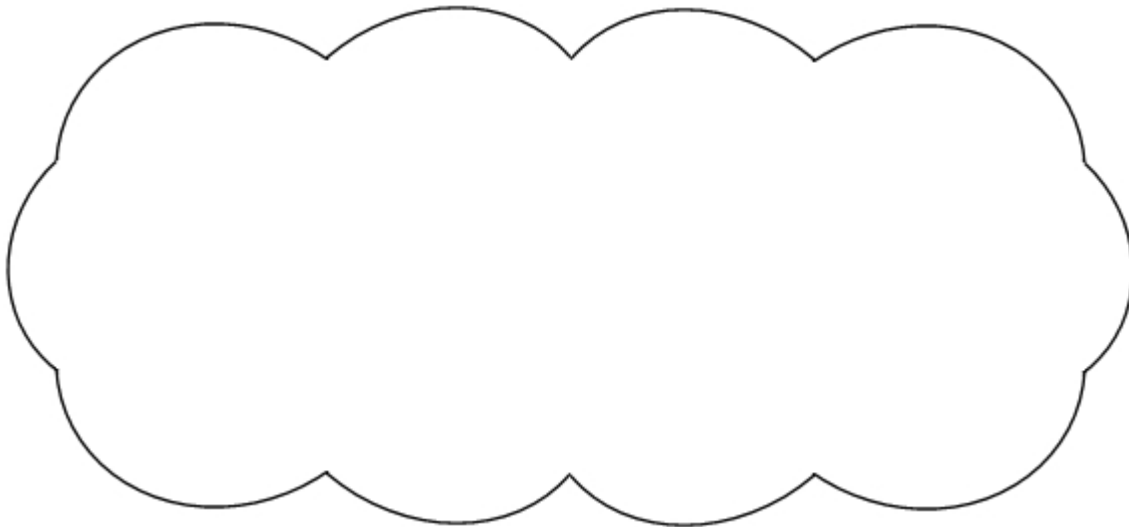
4

Liam did a survey of 55 people to see how many were left-handed.

Liam says,

'The results show that exactly 10% of the people in the survey are left-handed.'

Explain why Liam cannot be correct.



1 mark

5

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**?

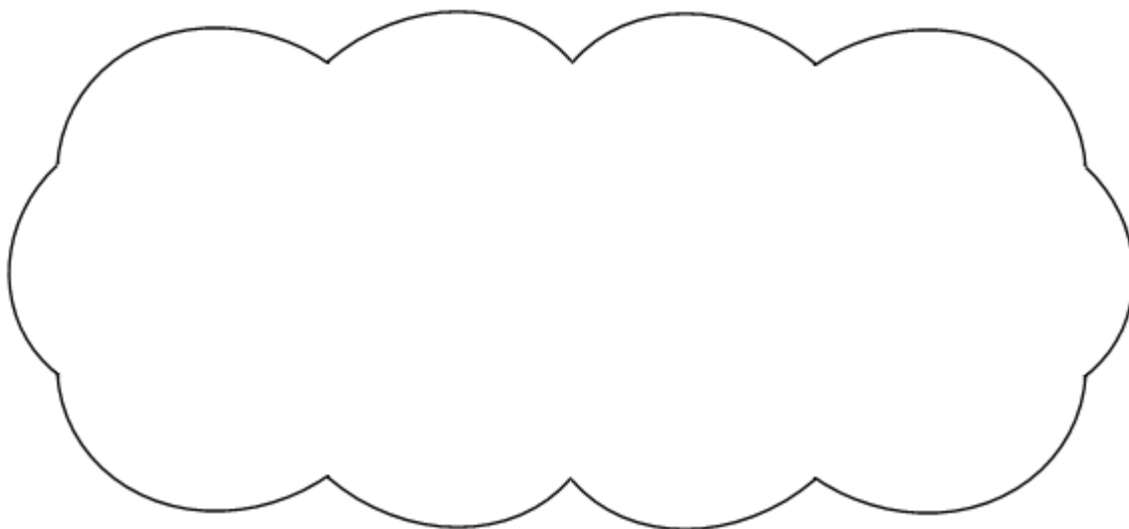
1 mark

Amy says,

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

Amy is correct.

Explain how you know.

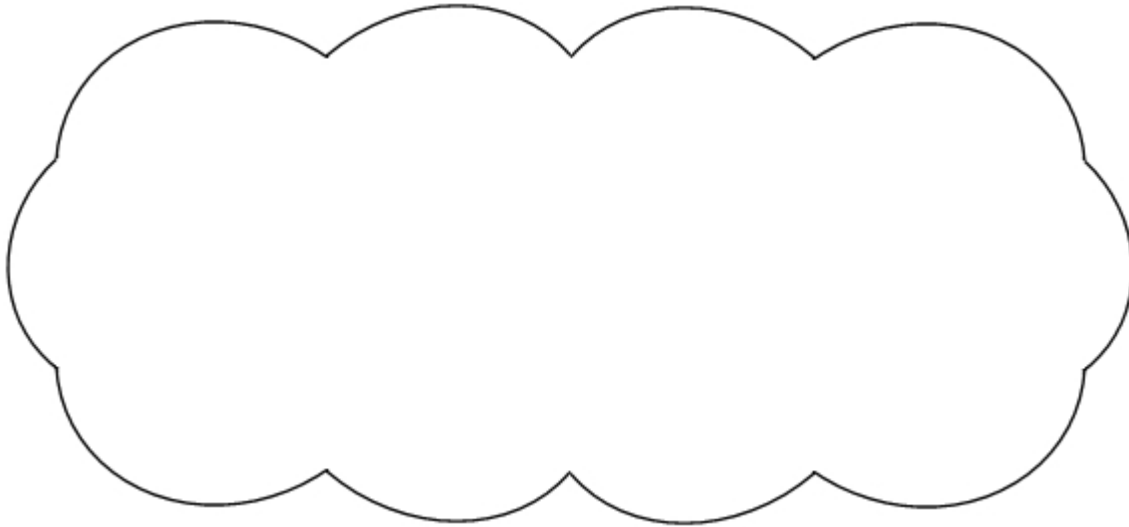


1 mark

6

Anna says $\frac{4}{7}$ is greater than $\frac{5}{9}$

Explain why Anna is correct.

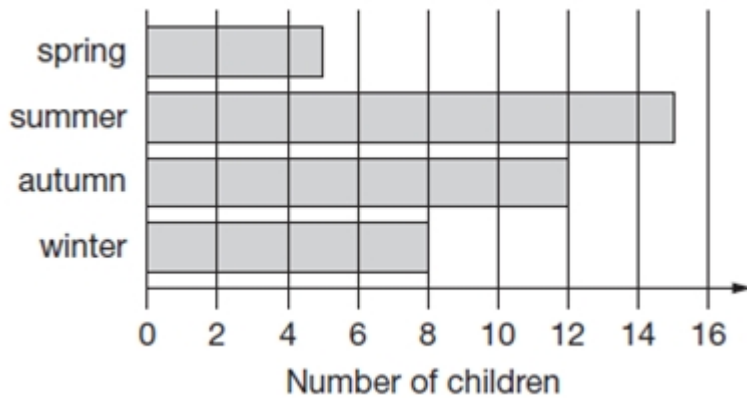


1 mark

7

A survey was done to find out children's favourite season.

This chart shows the results.



How many more children chose autumn than chose spring?

1 mark

Kirsty says,

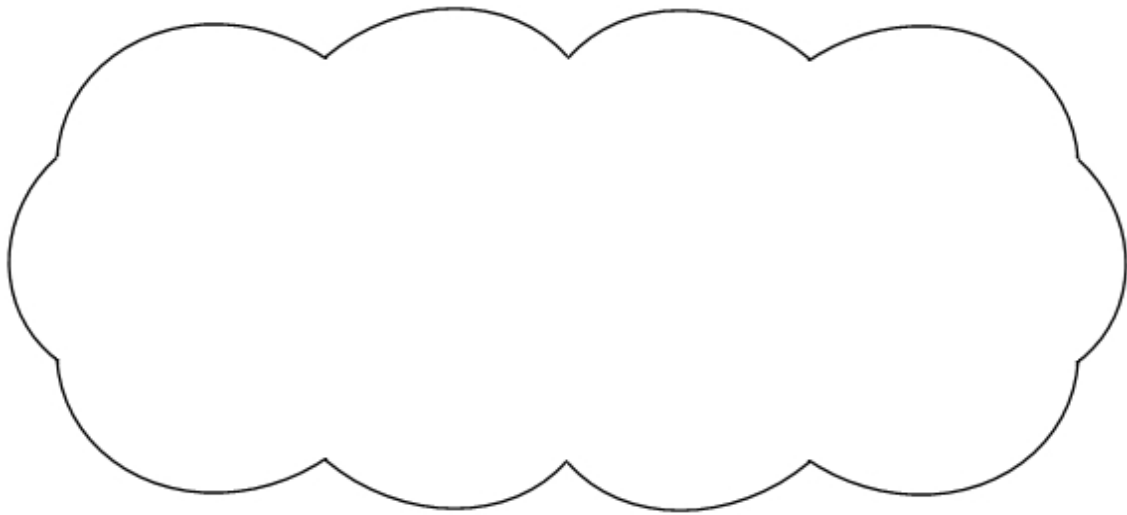
'Exactly twice as many children chose summer as chose winter.'

Is Kirsty correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



1 mark

8



Holly says,

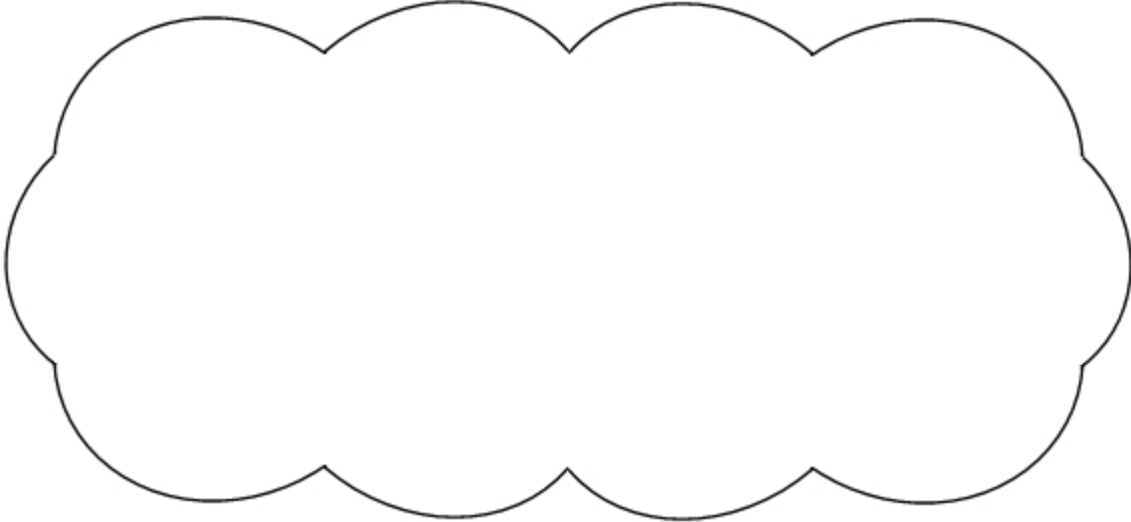
'One-third of this shape is shaded'.

Is Holly correct?

Circle **Yes** or **No**.

Yes / No

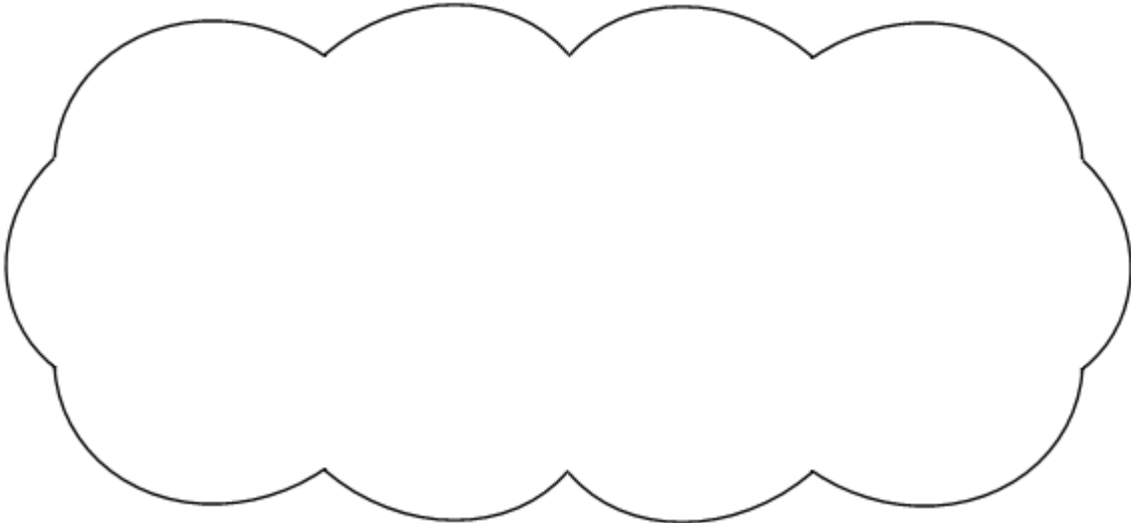
Explain how you know.



1 mark

9

If you know **40%** of a number, explain how you could work out the original number.



1 mark

10

Sarah has a packet of balloons.



The contents of the packet are

- 5 red balloons
- 5 blue balloons
- 10 yellow balloons

Sarah says,

'One-quarter of the balloons are red'.

Is Sarah correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

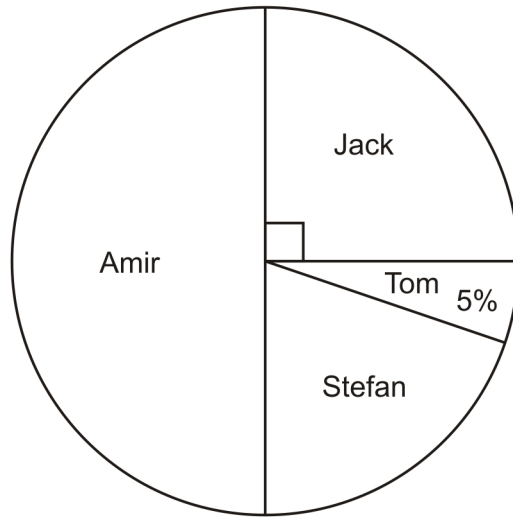
A large, empty, cloud-shaped outline with a scalloped border, intended for the student to write their explanation.

1 mark

11

40 children predicted who would win the boys' race at sports day.

This pie chart shows their predictions.



What percentage of the children predicted that Stefan would win?

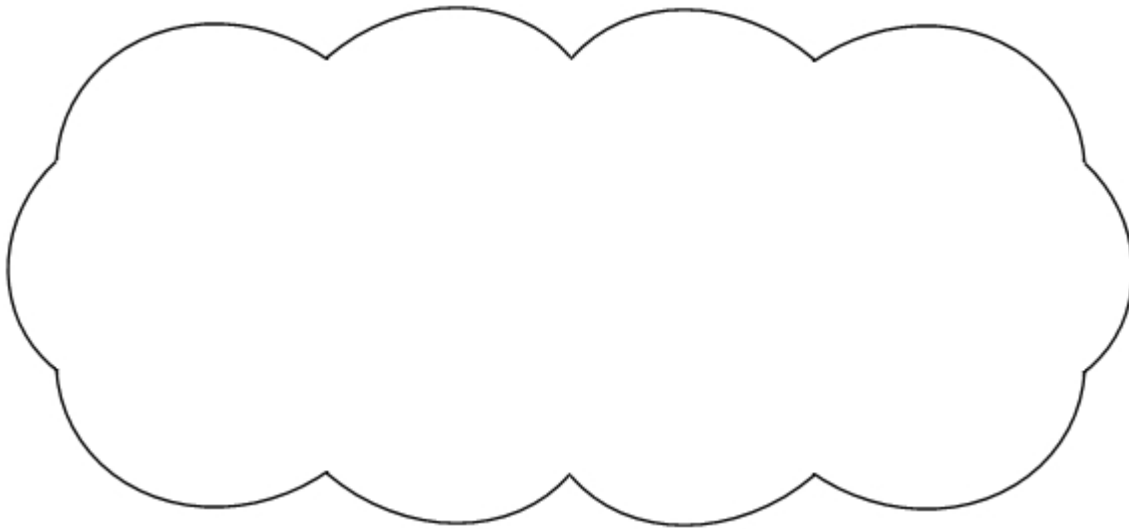
 %

1 mark

10 children predicted the winner of the race **correctly**.

Who won the race?

Explain how you know.



1 mark

12

Hassan scores 40 out of 80 in a test.

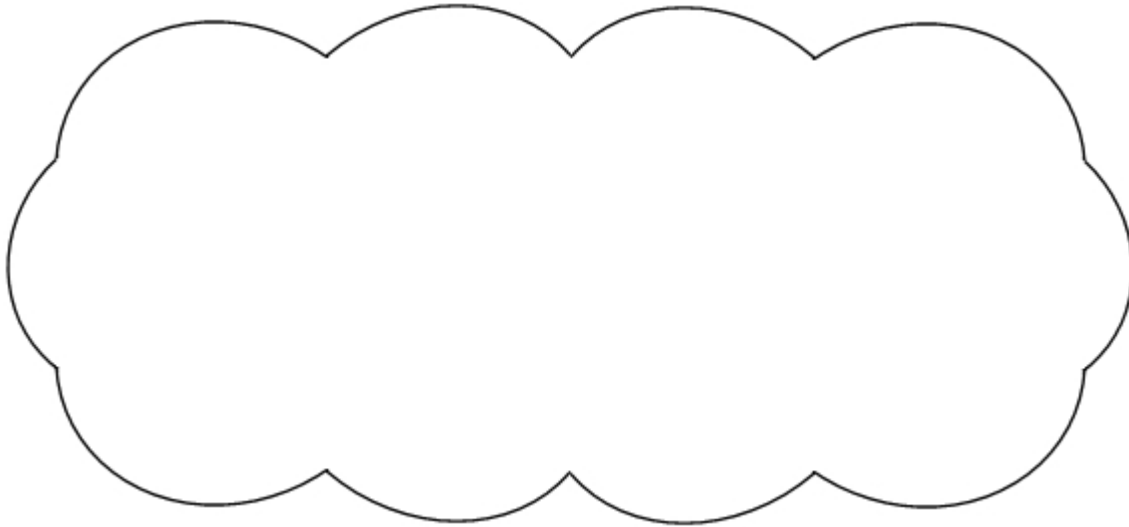
Kate scores 40% in the same test.

Who has the higher score?

Circle **Hassan** or **Kate**.

Hassan / Kate

Explain how you know.



1 mark

13

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

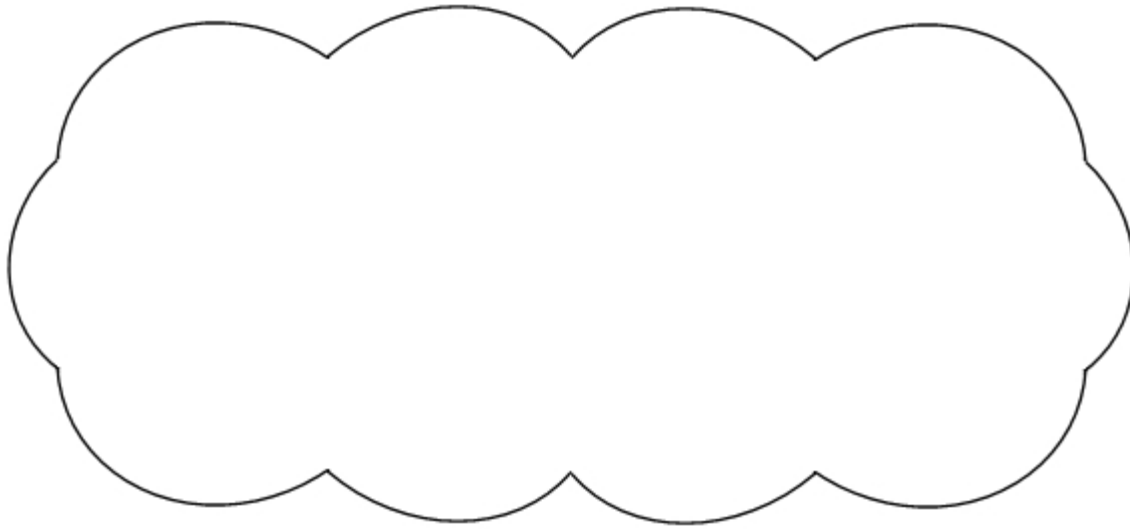
	multiple of 10	not a multiple of 10
multiple of 20	A	B
not a multiple of 20	C	D

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

1 mark

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

Explain why.

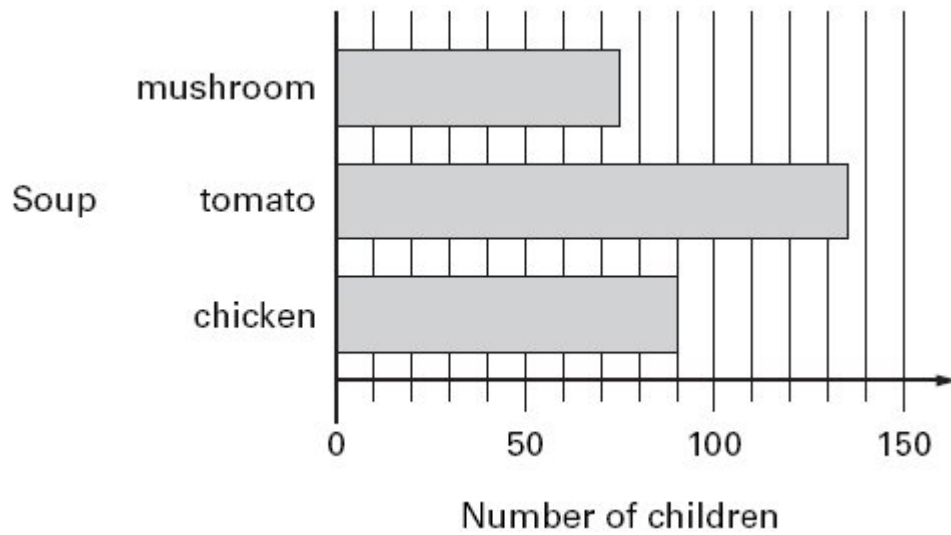


1 mark

14

All the children at Park School chose their favourite soup.

The graph shows the results.



How many **more** children chose **chicken** soup than **mushroom** soup?



1 mark

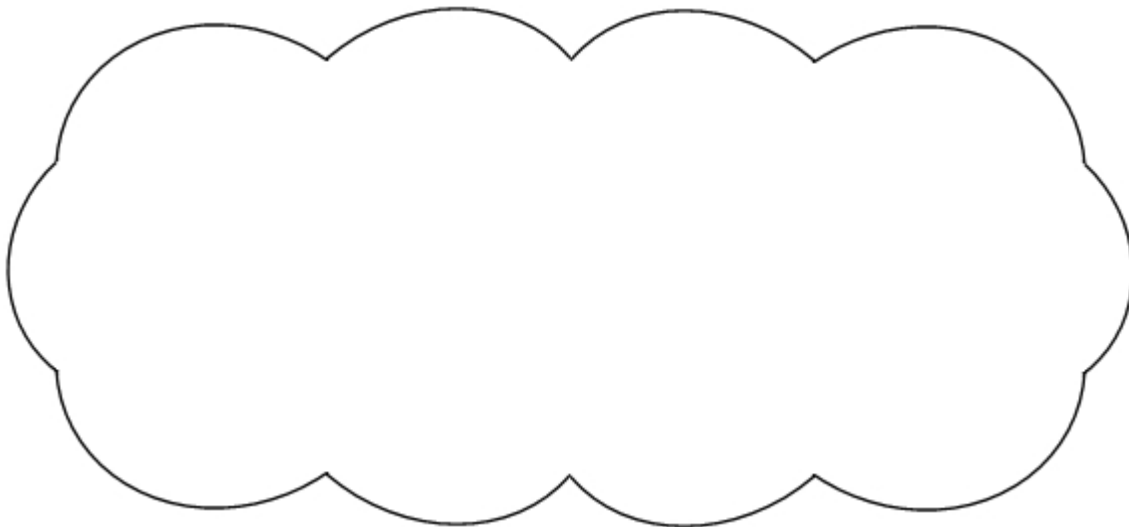
Robbie says,

'More than half of the children chose tomato soup.'

Is he correct?
Circle Yes or No.

Yes / No

Explain how you can tell from the graph.

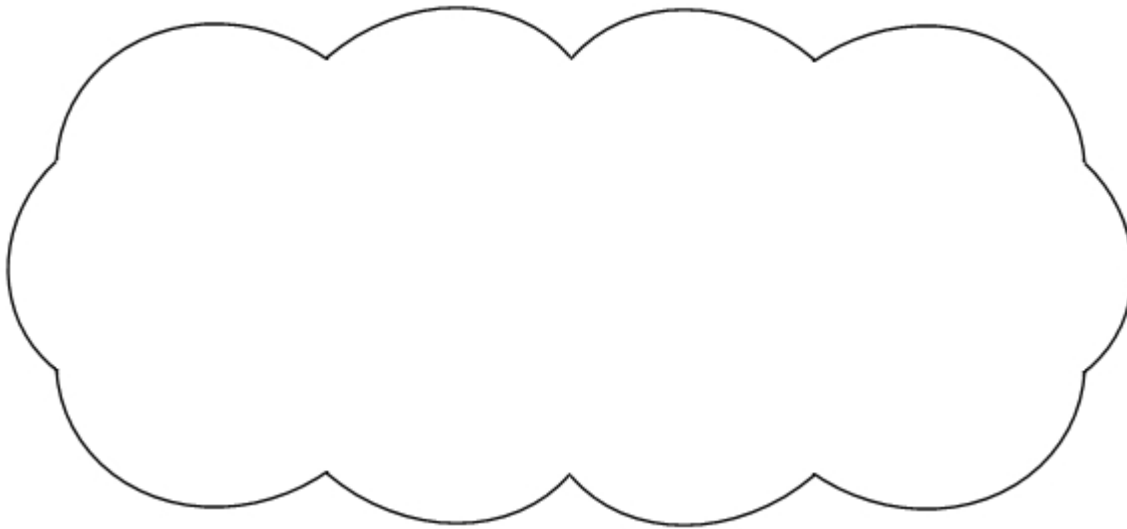


1 mark

15

Which is larger, $\frac{1}{3}$ or $\frac{2}{5}$?

Explain how you know.

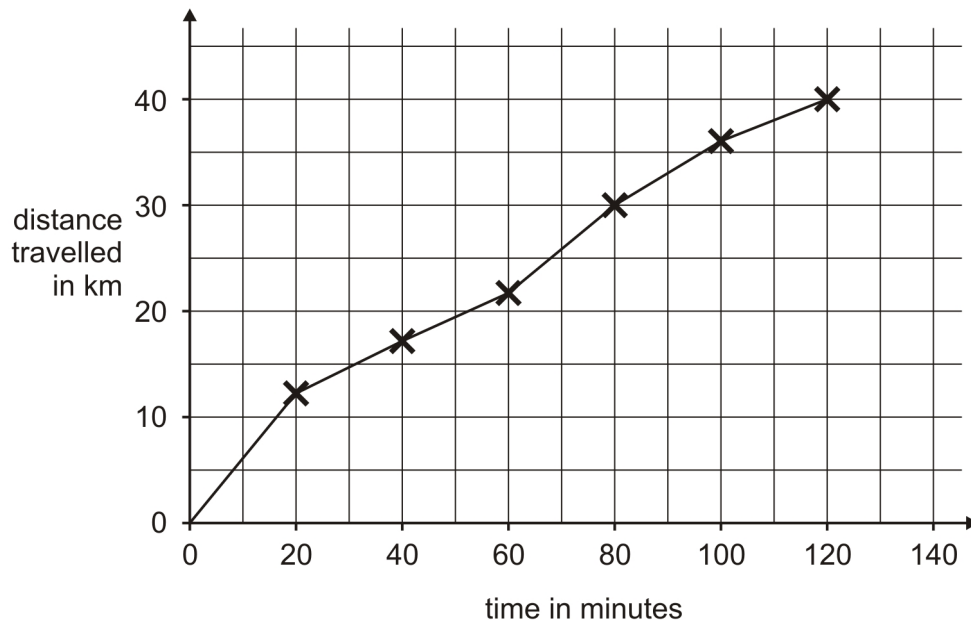


1 mark

16

Carol went on a **40-kilometre** cycle ride.

This is a graph of how far she had gone at different times.

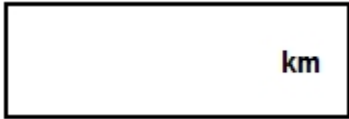


How many minutes did Carol take to travel the **last 10 kilometres** of the ride?

minutes

1 mark

Use the graph to estimate the distance travelled in the **first 20 minutes** of the ride.

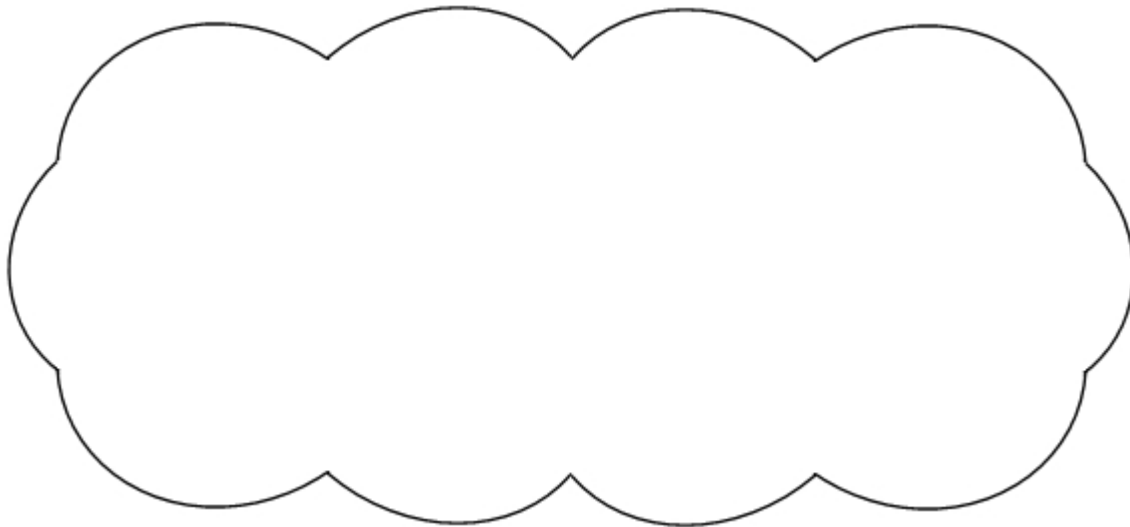


1 mark

Carol says,

'I travelled further in the first hour than in the second hour'.

Explain how the graph shows this.



1 mark

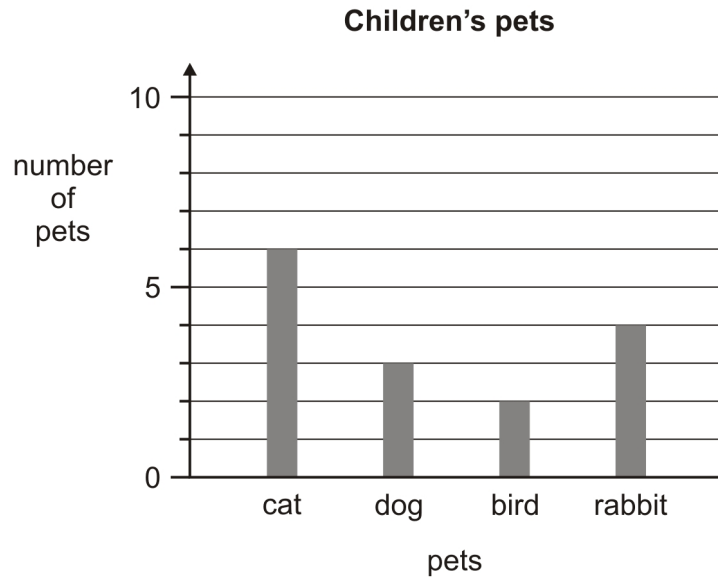
17

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.

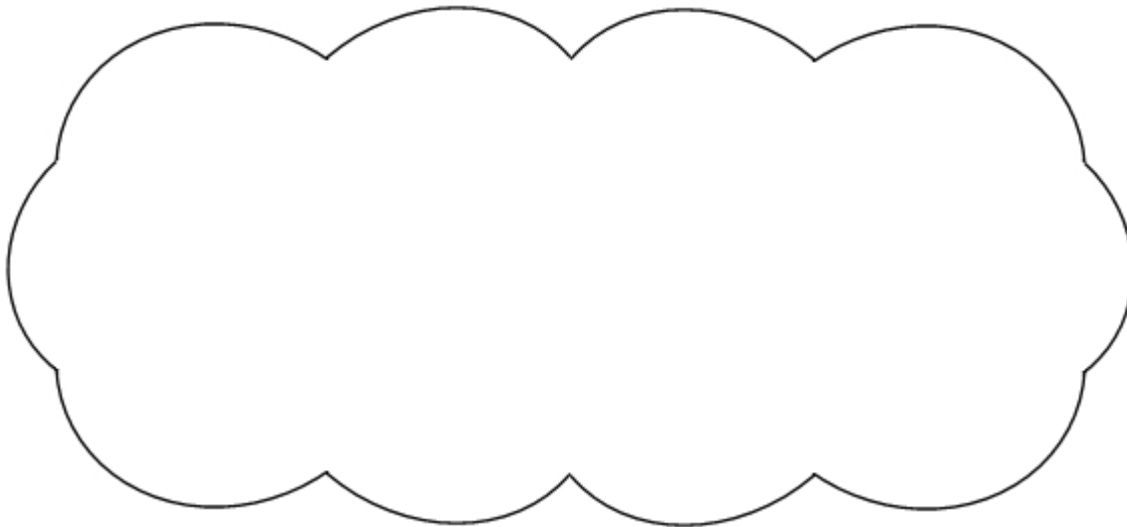


The pets of **one** of the children are not on the graph.

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

1 mark

Explain how you know.



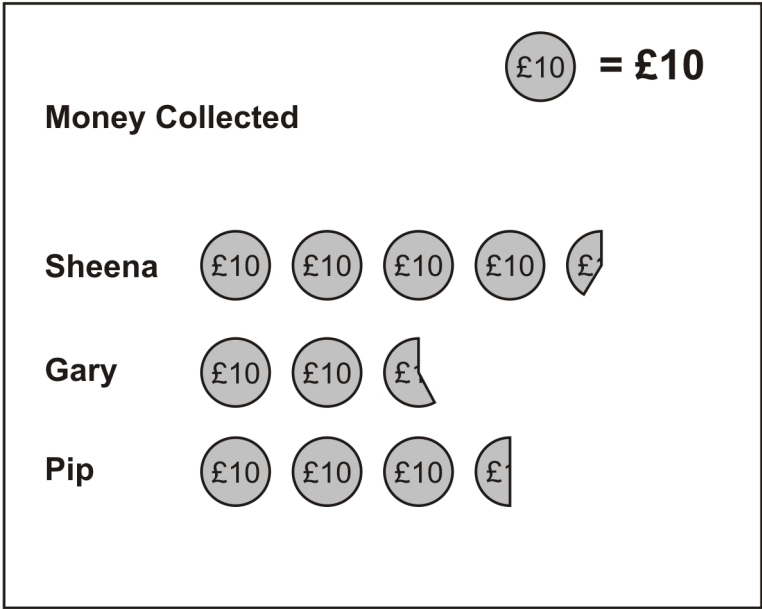
1 mark

18

Three children do a sponsored silence.



This is a chart of the money they collected.



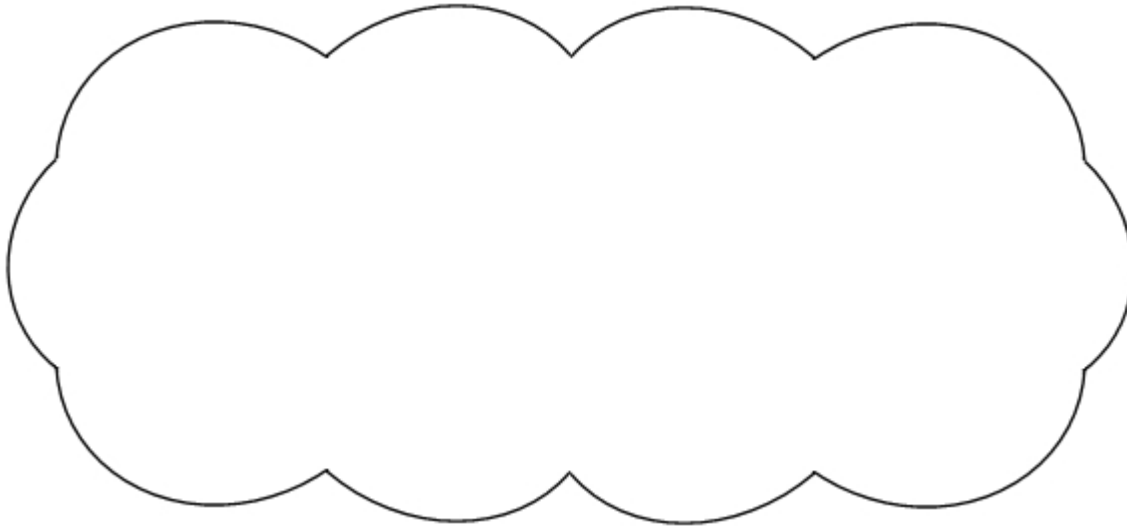
Estimate how much **Sheena** collected.

£

1 mark

Together **Gary** and **Pip** collected **more than £60**

Explain how the **chart** shows this.



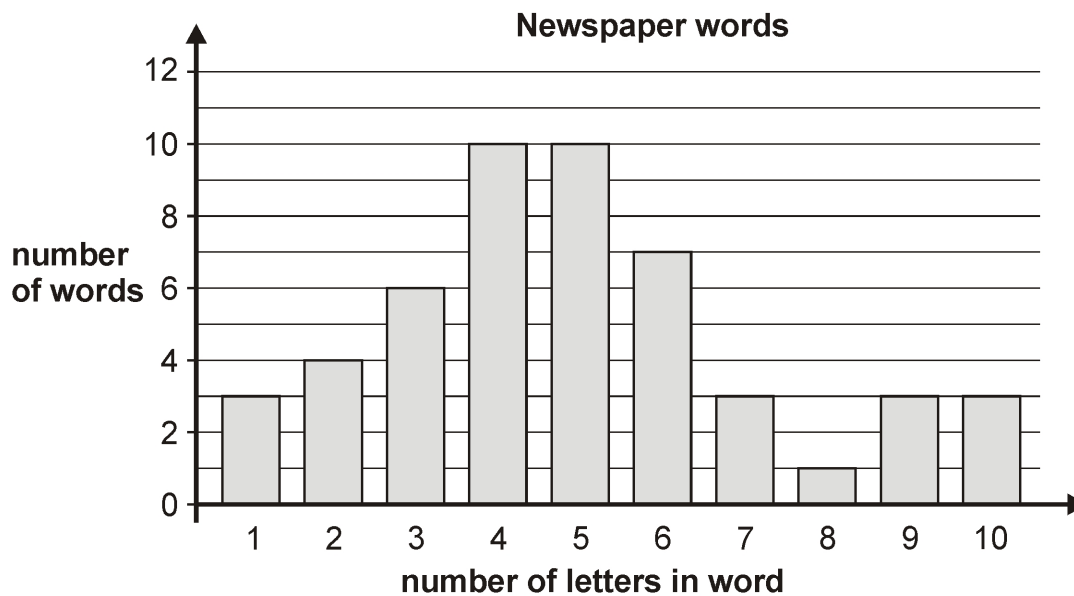
1 mark

19

Kelly chooses a **section** of a newspaper.

It has **50 words** in it.

She draws a bar chart of the number of letters in each word.



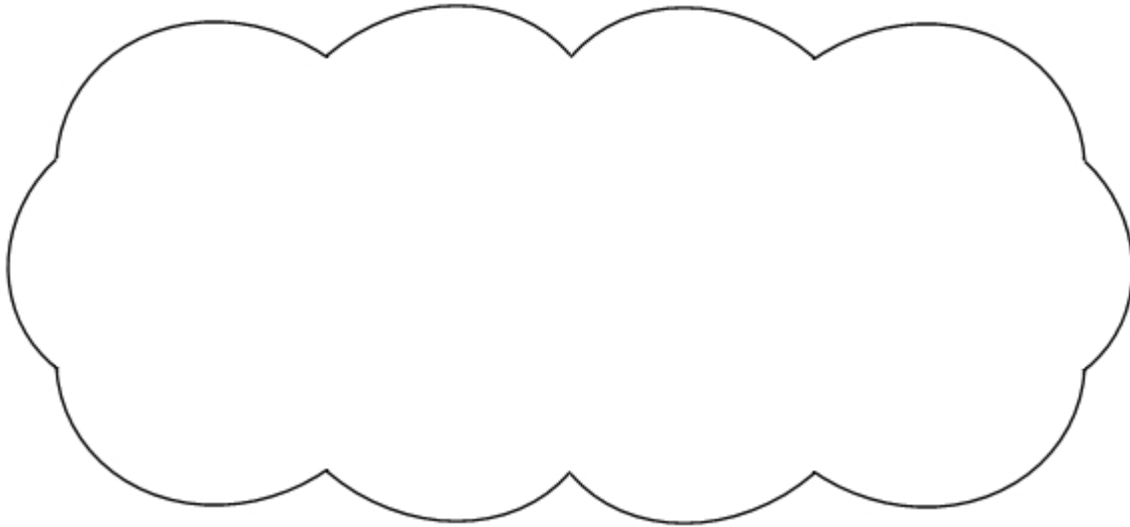
What **fraction** of the 50 words have **more than 6 letters**?

1 mark

Kelly says,

23 of the 50 words have less than 5 letters. This shows that nearly half of all the words used in the newspaper have less than 5 letters in them.

Explain why she **could be wrong**.



1 mark