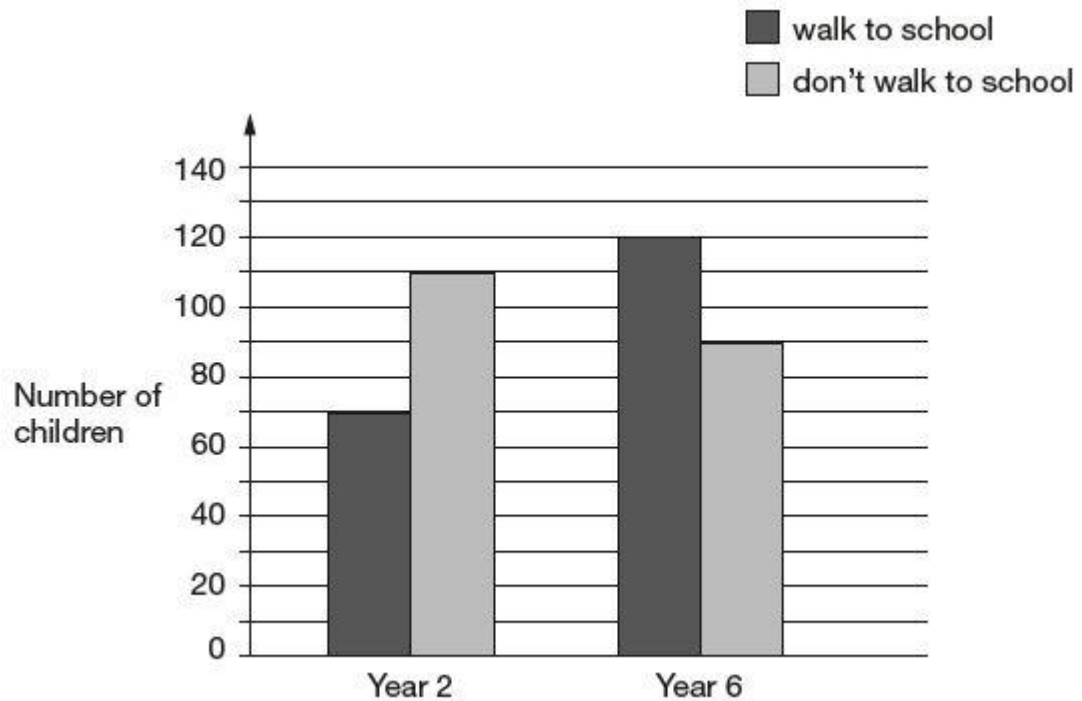


Q1.

William asks the children in Year 2 and Year 6 if they walk to school.

This graph shows the results.



Altogether, how many children **don't** walk to school?

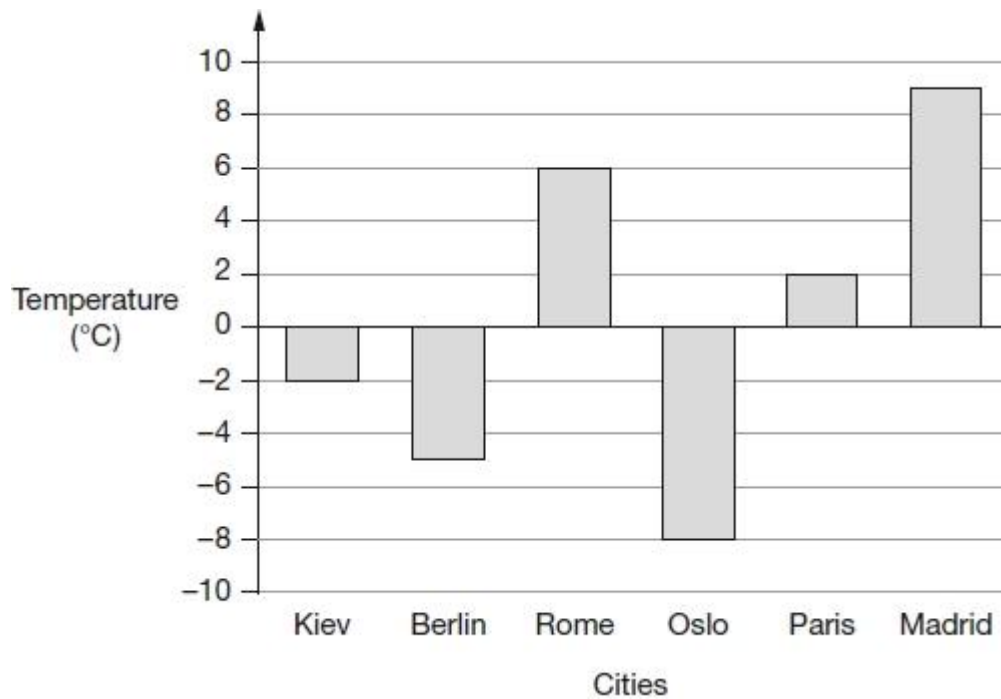
1 mark

How many **more** Year 6 children than Year 2 children walk to school?

1 mark

Q2.

This graph shows the temperature in six cities on one day in January.



Which city was 4 degrees **warmer** than Kiev?

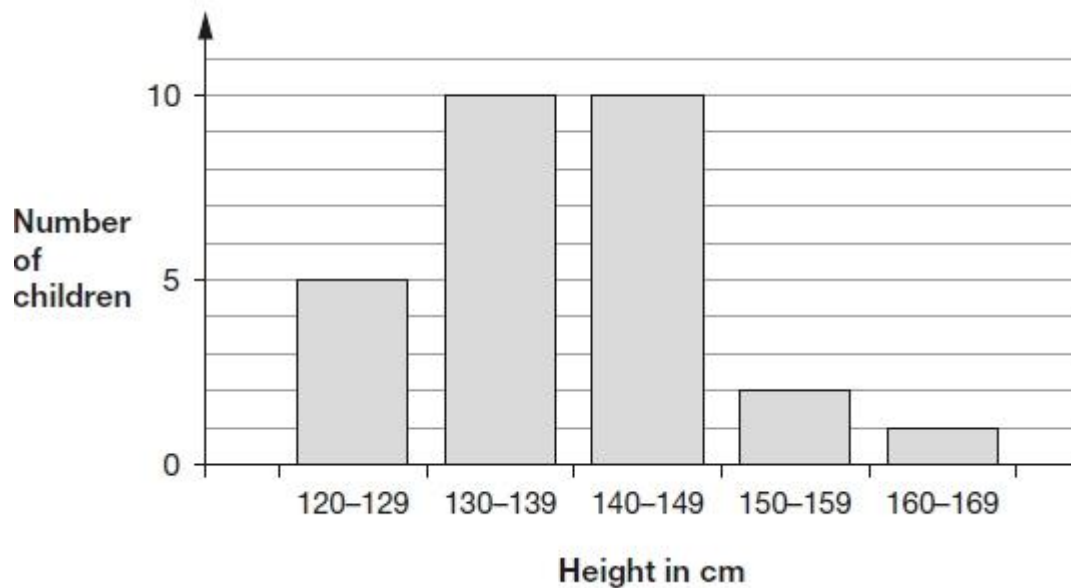
_____ 1 mark

What was the **difference** between the temperature in Oslo and the temperature in Berlin?

°C 1 mark

Q3.

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



Alfie is 153 cm tall.

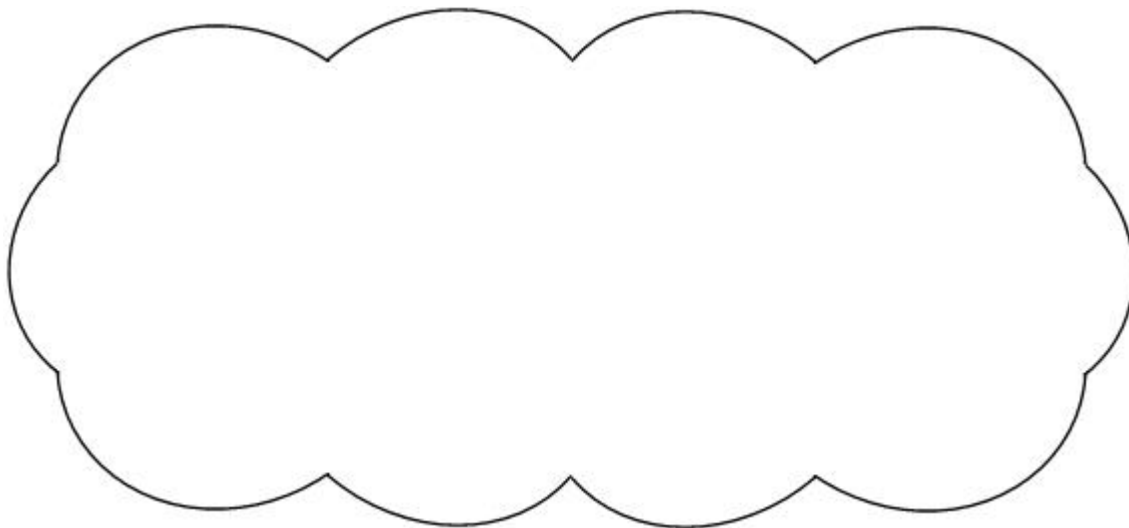
He says,

'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.

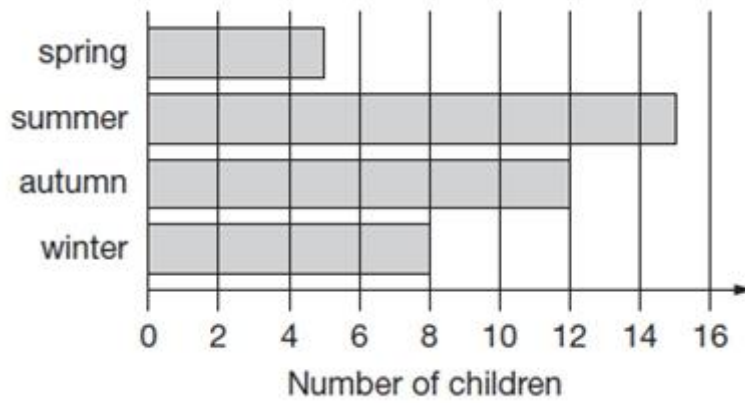


1 mark

Q4.

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**.

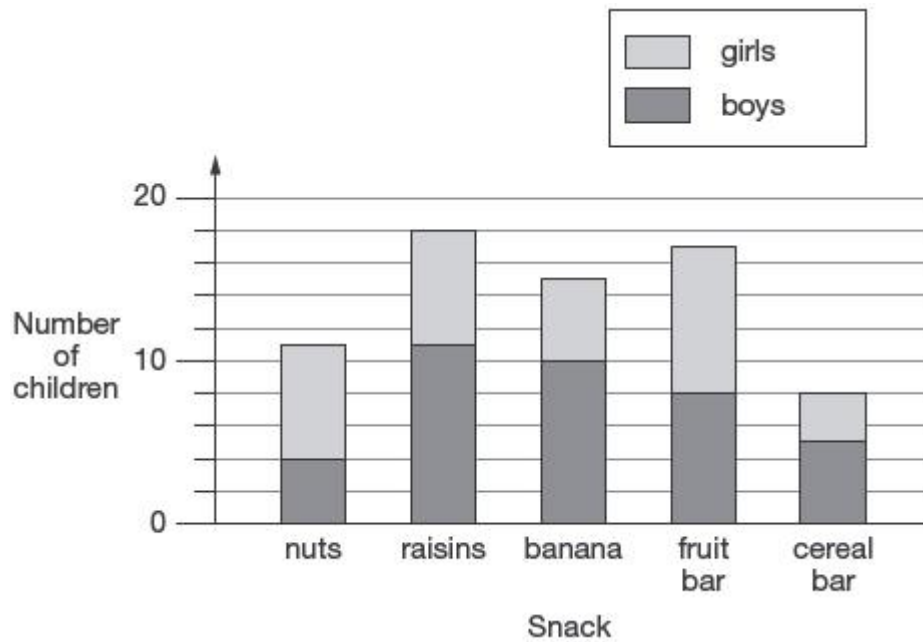
Yes / No

Explain how you know.

1 mark

Q5.

This chart shows the favourite snacks of some boys and girls.



How many snacks were chosen by more girls than boys?

1 mark

How many more boys than girls chose raisins?

1 mark

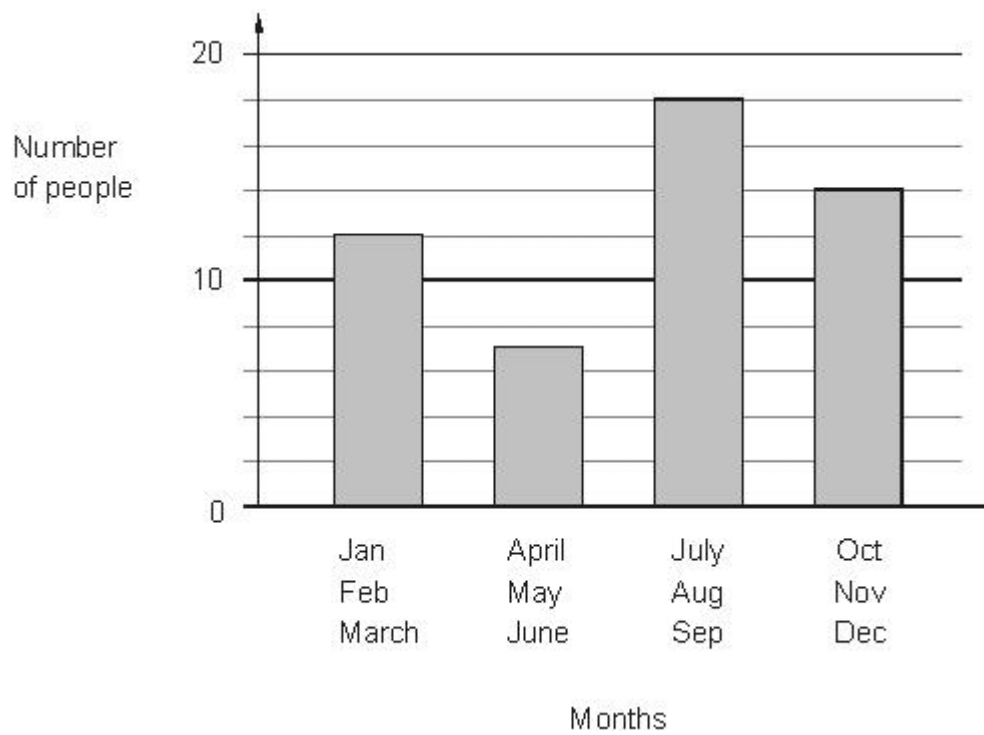
Which snack was chosen by twice as many boys as girls?

1 mark

Q6.

Class 6 did a survey of birthday dates.

This chart shows the number of people with birthdays in each three months of the year.



From the chart, how many people have a birthday before July?

1 mark

Nobody has a birthday in October.

Six people have a birthday in November.

How many people have a birthday in December?

1 mark

Mark schemes

Q1.

(a) 200

1

(b) 50

1

[2]

Q2.

(a) Paris

1

(b) 3

Do not accept -3.

1

[2]

Q3.

Gives a correct explanation which demonstrates how the graph shows two children could be taller than Alfie, eg:

- One person from the class is 160-169cm. But someone as well as this person could be taller than Alfie. 2 people range from 150-159 cm, the other person could be 154, 155, etc

Minimally acceptable explanation, eg:

- *It could be 1.64, 1.56, Alfie*
- *It depends on how tall the other person in his height group is*
- *There could be someone between 150-159 cm who is taller than Alfie*

! Condone incorrect use of boundary values, eg:

- *One child is in the range 160 cm–169 cm. Don't know how tall the other child between 150 cm and 159 cm is*

Do not accept incomplete or incorrect explanation, eg:

- *There is 1 child in the range 150 cm-159 cm taller than Alfie*
- *There could be two children taller than Alfie*

[1]

Q4.

(a) 7

1

- (b) An explanation which recognises that the bar for summer is not twice as long as the bar for winter, eg:

- '15 chose summer and 8 chose winter, and 15 is not twice 8'
- 'An odd number of children chose summer, so it can't be twice as many because children must be a whole number'
- 'More than half as many chose winter as chose summer'
- '15 ÷ 2 = $7\frac{1}{2}$ not 8'
- 'Because summer isn't 16'
- '8 × 2 = 16, not 15'
- '15 is 7 away from 8'

No mark is awarded for circling 'No' alone.

Do not accept vague or incomplete explanations, eg:

- '15 chose summer and 8 chose winter'
- 'More children chose summer than winter'.

If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

1
U1

[2]

Q5.

(a) 2

Do not accept nuts and fruit bar.

1

(b) 4

1

(c) banana

Accept unambiguous abbreviations or recognisable misspellings.

1

[3]

Q6.

(a) 19

1

(b) 8

U1

[2]