

Statistics

6.1

Total Marks (out of 17)	
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Name	
Date	

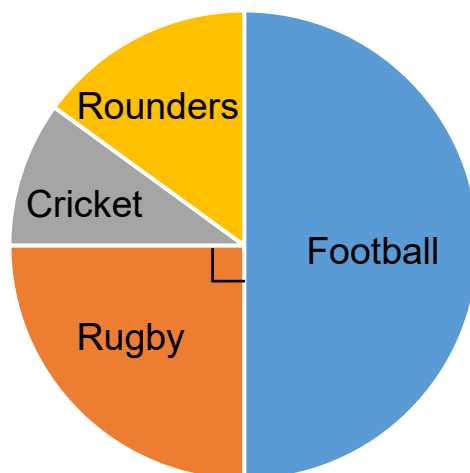
Section 1:

interpret and construct pie charts and line graphs and use these to solve problems

1

There are **60** children in Year 6 at Wellesbourne School.

They each voted for the sport they wanted to play in their PE lessons.



How many children voted for football?

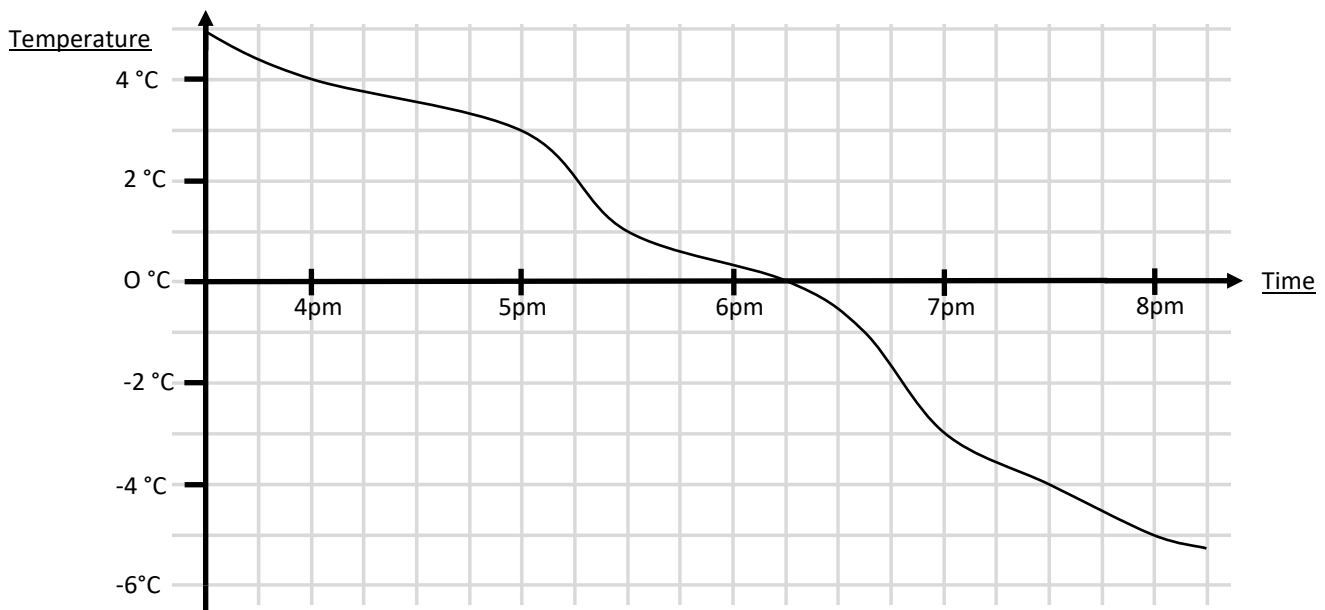
1 mark

Rounders received 15% of the votes.

What **percentage** of the children voted for cricket?

1 mark

2 This graph shows the temperature in Banbury on a winter evening.



What was the temperature at 5.00 pm?

 °C

1 mark

What was the time when the temperature reached 0°C ?

 :

1 mark

Eve went out at 4:00pm. She returned home 3 hours later.

By how much had the temperature fallen while she was out?

 °C

1 mark

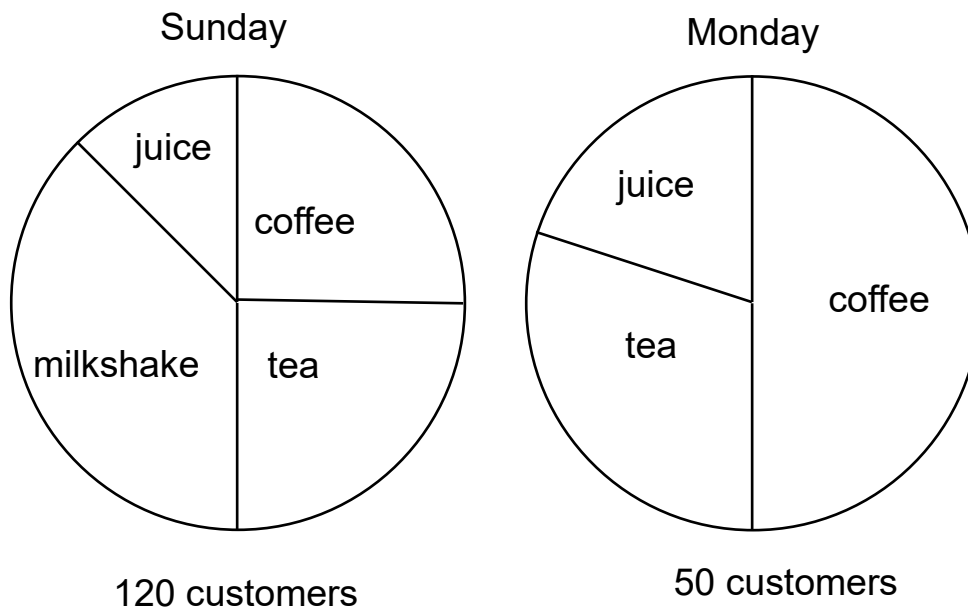
Zac checked the temperature at 8:00pm. He checked again at 8:00 am the next morning. He noticed the temperature has risen by 12°C.

What was the temperature at 8:00 am the next morning?

 °C

1 mark

3 These pie charts show the number of drinks sold by a café in two days.



Ten glasses of juice were sold on Monday.

How many cups of tea were sold on Monday?

1 mark

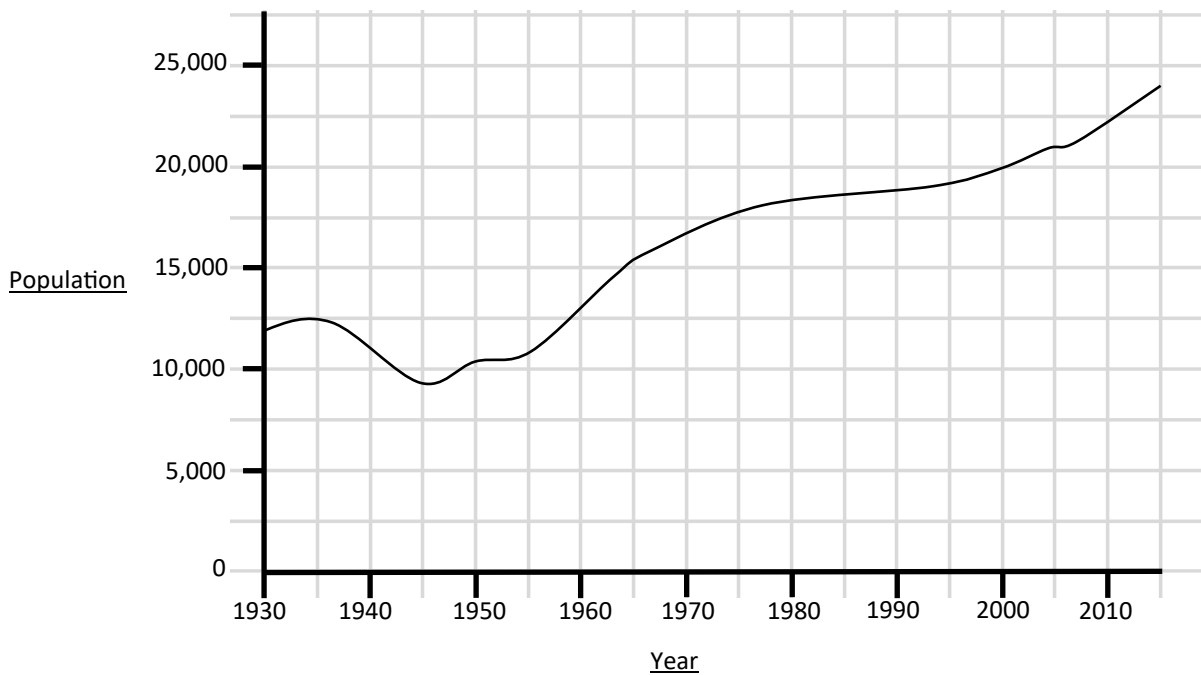
Felix says, "There were more cups of coffee sold on Monday than on Sunday."

Is he right? Explain how you know.

He is **right** / **wrong** (circle one)

because ...

4 The graph shows the population of Warwick from 1930 to 2015.



Estimate the population of Warwick in 2010.

1 mark

In which year did the population first reach 17,500?

1 mark

The population of Warwick reached 12,500 in 1935. It then fell.

How many years did it take until the population reached 12,500 again?

1 mark

Section 2:**calculate and interpret the mean as an average**

5 Marcus threw a javelin 3 times.

He measured the distance and rounded to the nearest metre.

	Throw 1	Throw 2	Throw 3
Distance (metres)	10	14	15



What was the mean average distance he threw?

m

1 mark

6 Eve ran 200 metres four times. These are her times in seconds.

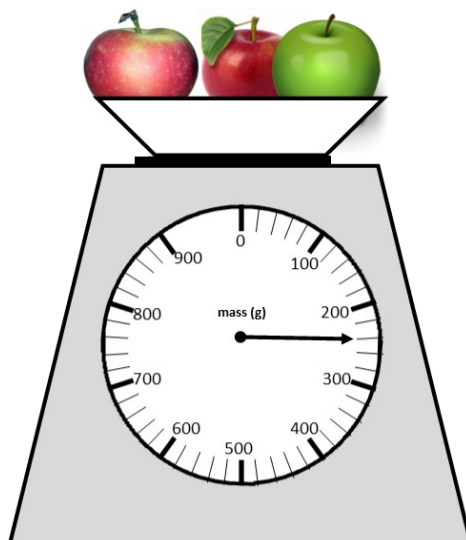
35.2 34.3 36 34.9

What was her mean average time?

Show
your
method

2 marks

7 Three apples are placed on a measuring scale.



What is the mean average mass of the apples?

 g

1 mark

The middle apple is removed.

The mean average mass of the two remaining apples is 75g.

What is the mass of the apple that was removed?

 g

1 mark

8 Here are four cards.

Write a number on the 4th card to make the mean average 14.5

12

14

17

1 mark