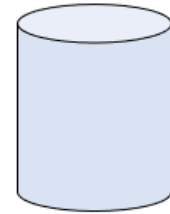


Warm-Up Challenge

Flashback 4

- 1) Add 0.63 to 0.74
- 2) Subtract 0.35 from 0.78
- 3) Round 0.81 to the nearest whole number.
- 4) How many girls are there altogether?



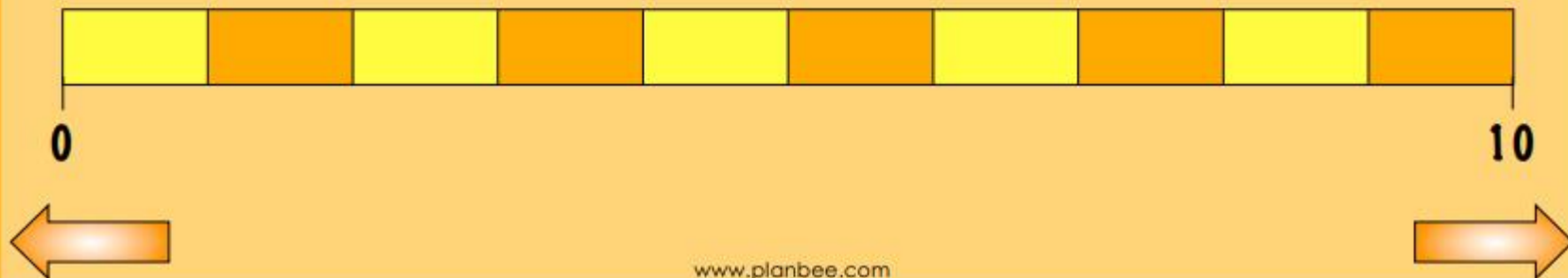
	Boys	Girls
Age 9	53	74
Age 10	72	81

Preparing to read and interpret line graphs

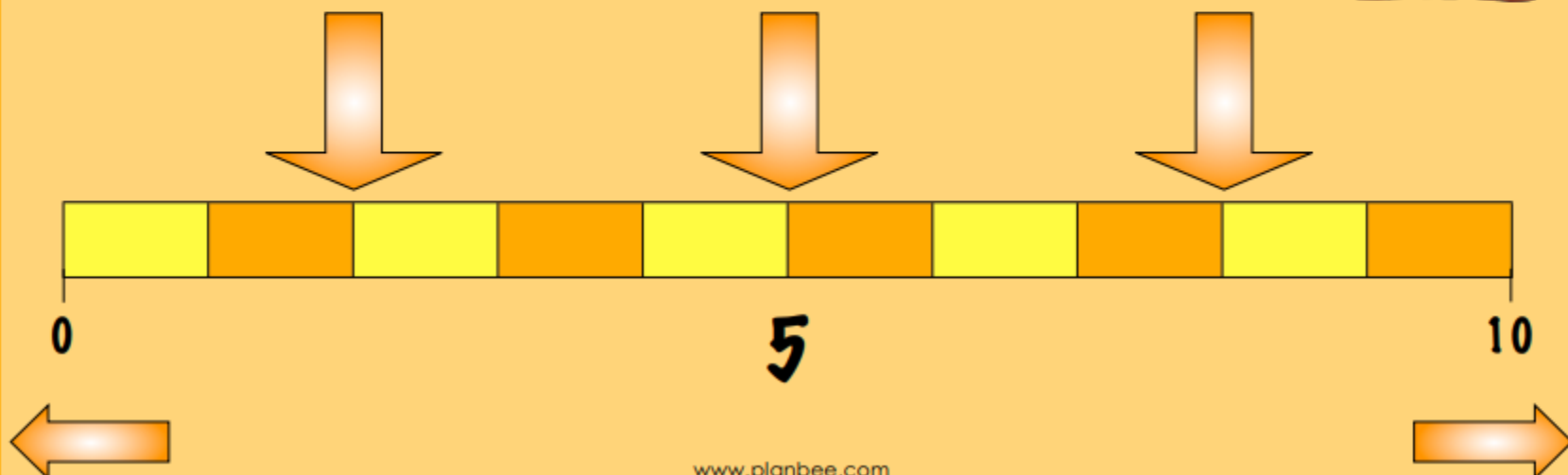
Challenge 1...



What number do you think this arrow is pointing to? How do you know?

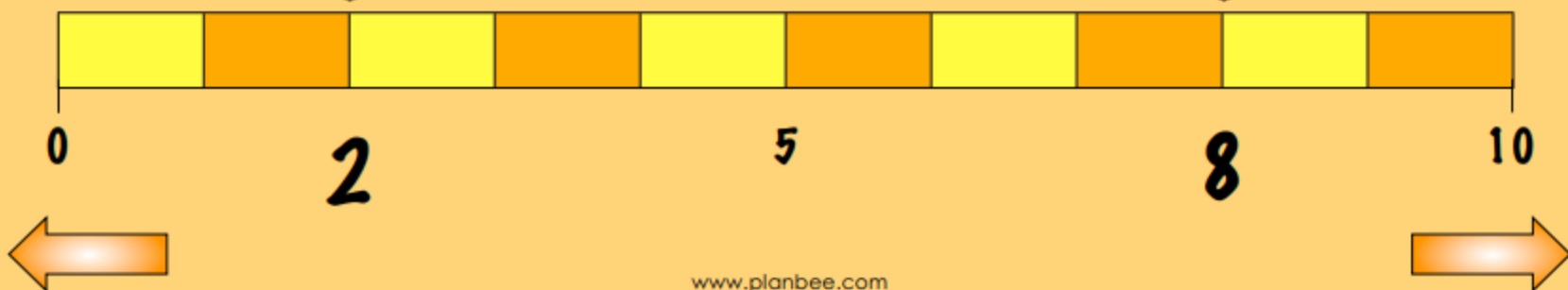


It was pointing at the 5! What numbers are the other two arrows pointing at now?

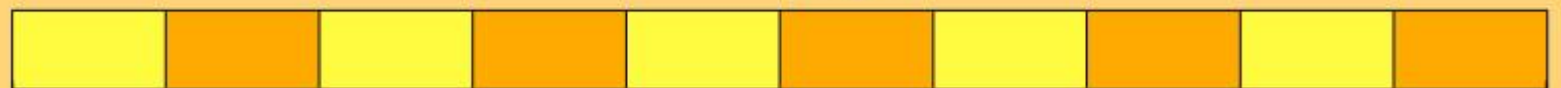




The arrows were pointing at 2 and 8.
Well done!



What number is the arrow pointing to now?



0

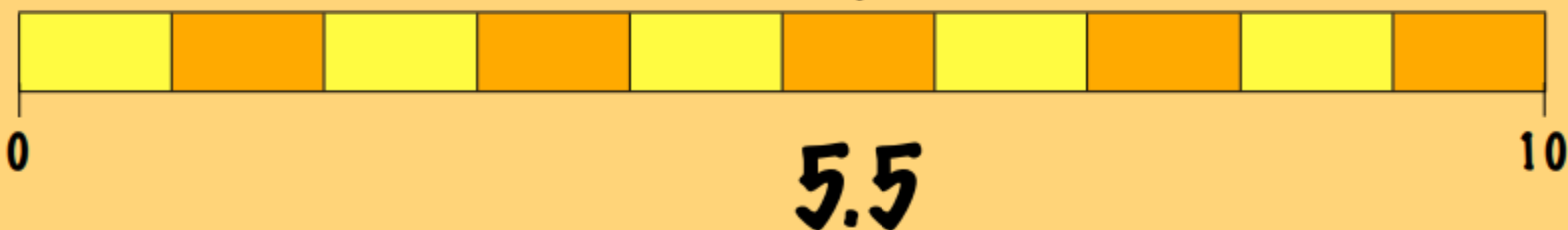
10



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The arrow is halfway between the 5 and the 6 so it is at $5\frac{1}{2}$ or 5.5.



What number is the arrow pointing to?



0



100

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**It is pointing at 70!
Did you get that right?**

70

100

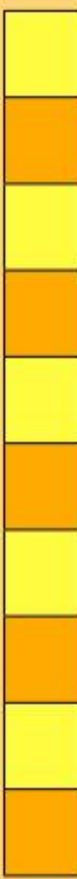
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What number is the arrow pointing to?

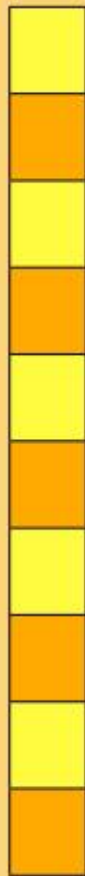


0



100

-50



What number is the arrow pointing to?



50

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- 50

10

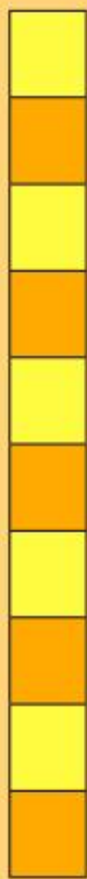
50

It is pointing at 10!
Did you get that right?



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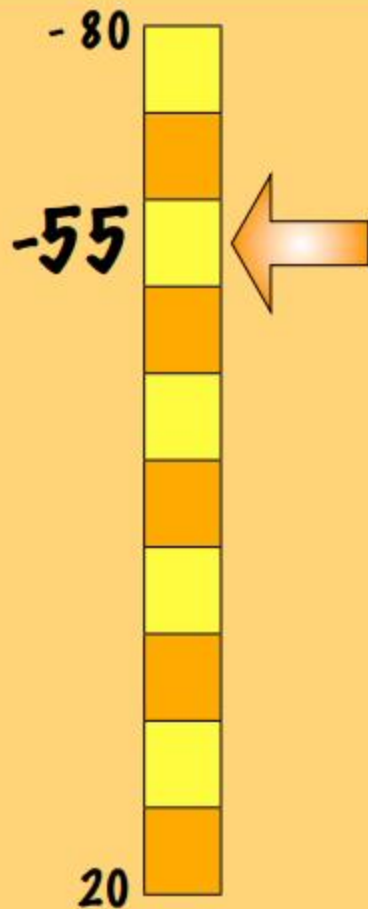
- 80



What number is the arrow pointing to?



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It is pointing at -55!
Did you get that right?



100

What number is the arrow pointing to?

200

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100

175

200

It is pointing at 175!
Did you get that right?



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Independent Challenge 1:

Bees

Where would **50, 80, 20, 25** and **95** be on this counting stick?



Where would **10, 45, 30, 20** and **5** be on this counting stick?



Where would **60, 70, 95** and **55** be on this counting stick?



Where would **55, 75, 80, 60** and **90** be on this counting stick?



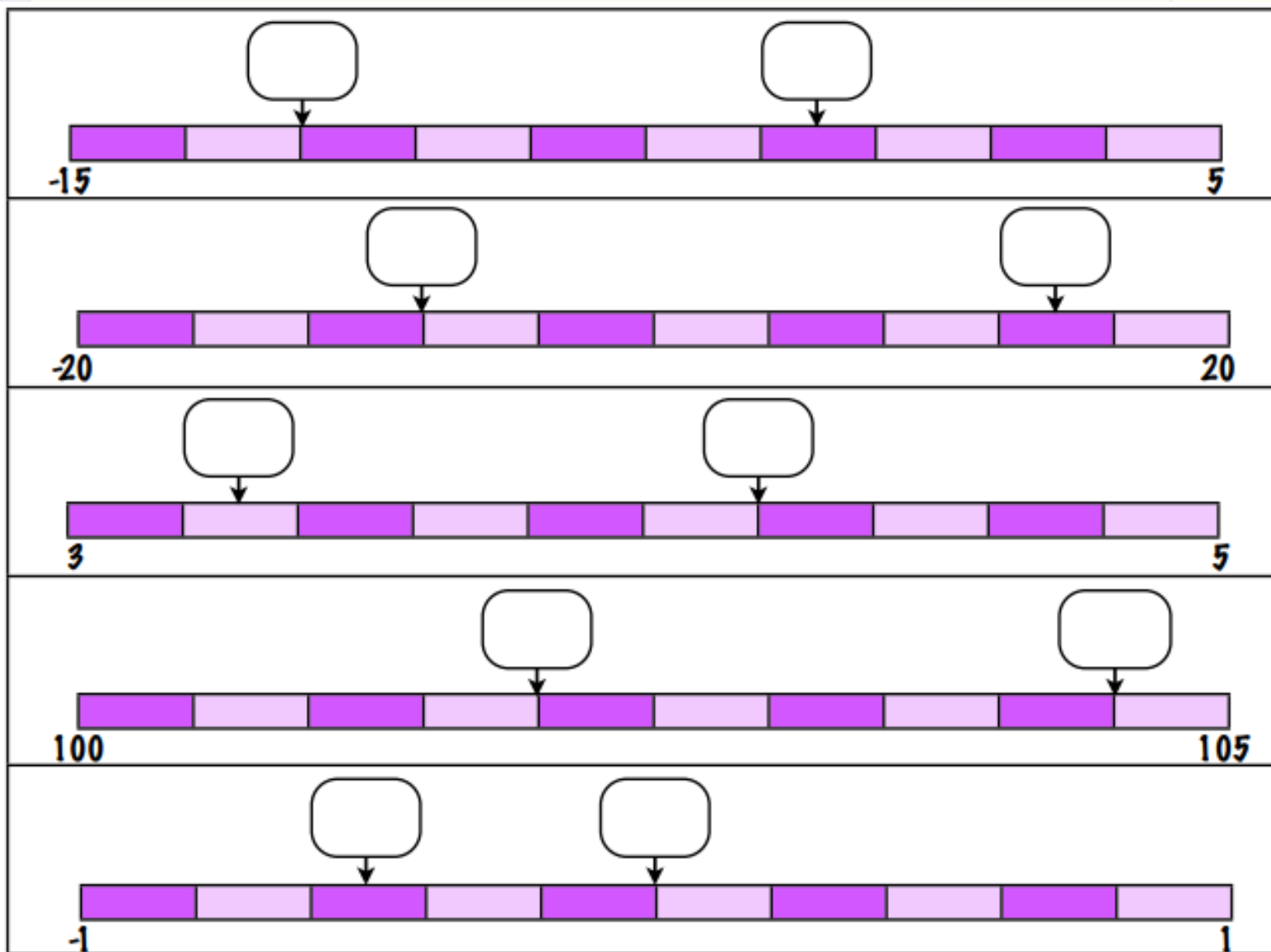
Where would **0.1, 0.5, 0.9, 0.3** and **0.25** be on this counting stick?



Grab a pen and piece of paper and identify the missing numbers

Independent Challenge 1:

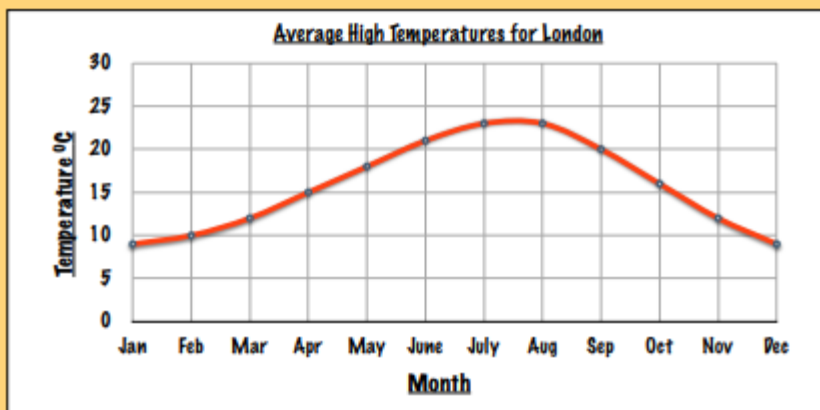
Beetles



Grab a pen and piece of paper and identify the missing numbers

Preparing to read and interpret line graphs

Challenge 2 ...

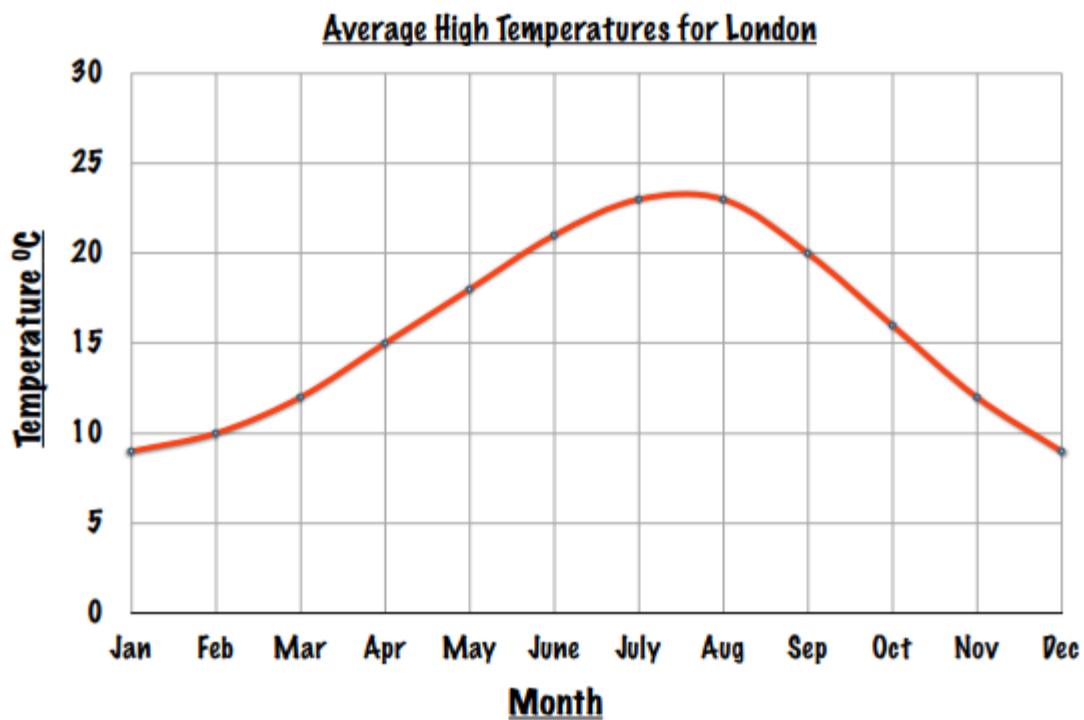


Graphs like this are called **line graphs**. Line graphs are useful for showing information that is connected in some way, such as a change over time. Unlike bar graphs, line graphs allow us to estimate the values between points that are plotted.

Let's have a closer look at what graphs like this can show us...



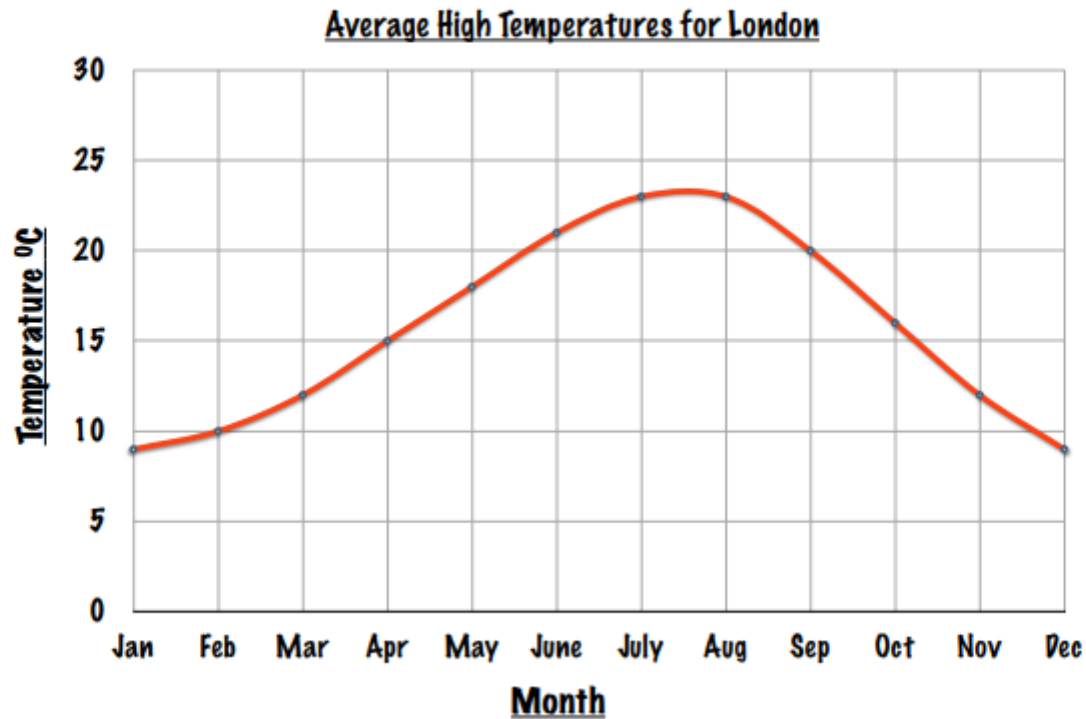
What exactly is this line graph showing us?



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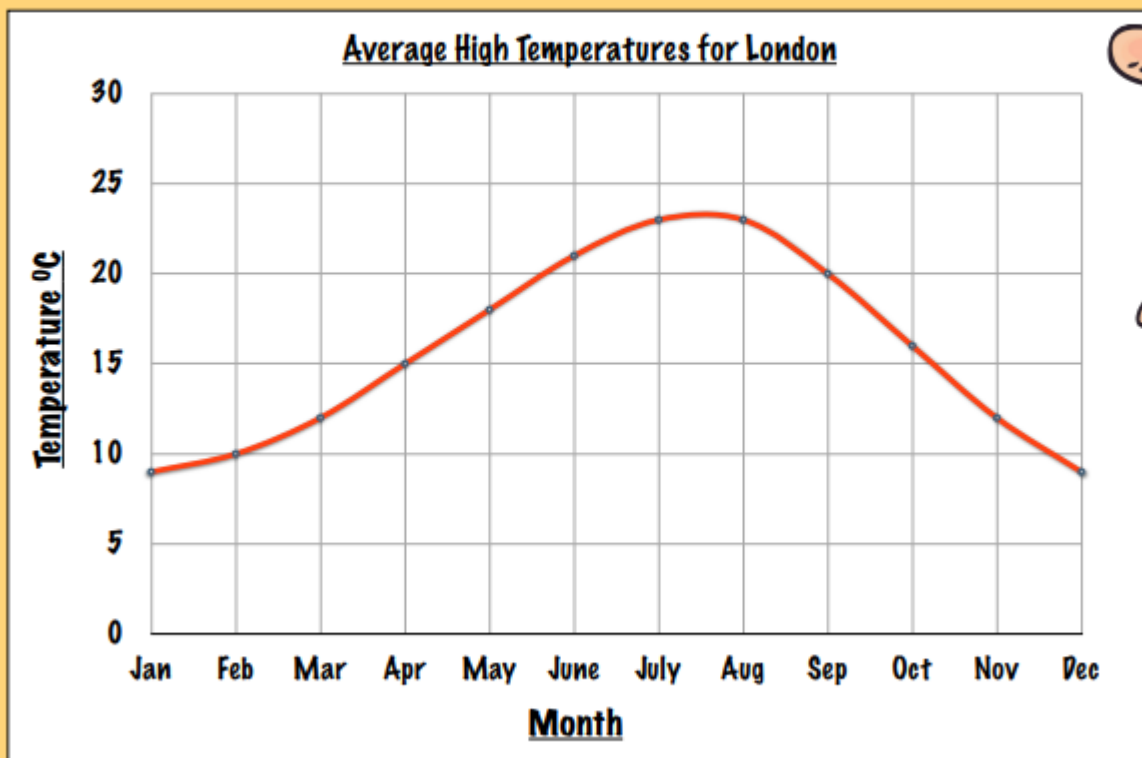
What is shown on the vertical axis?



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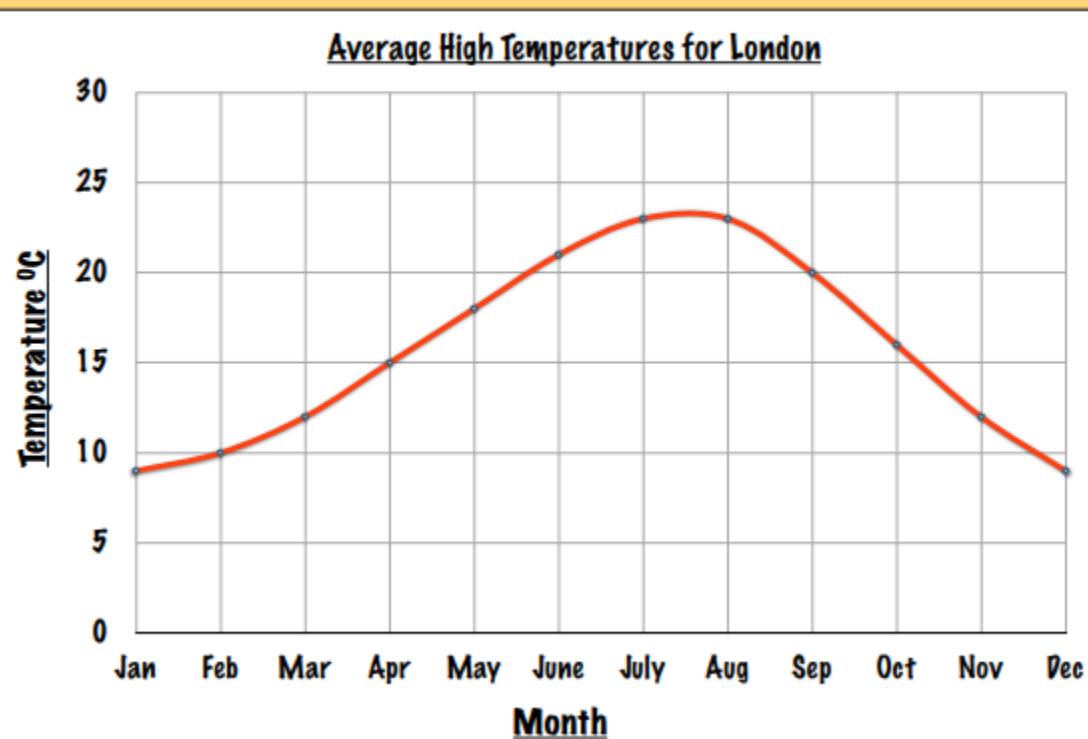
What is shown on the horizontal axis?



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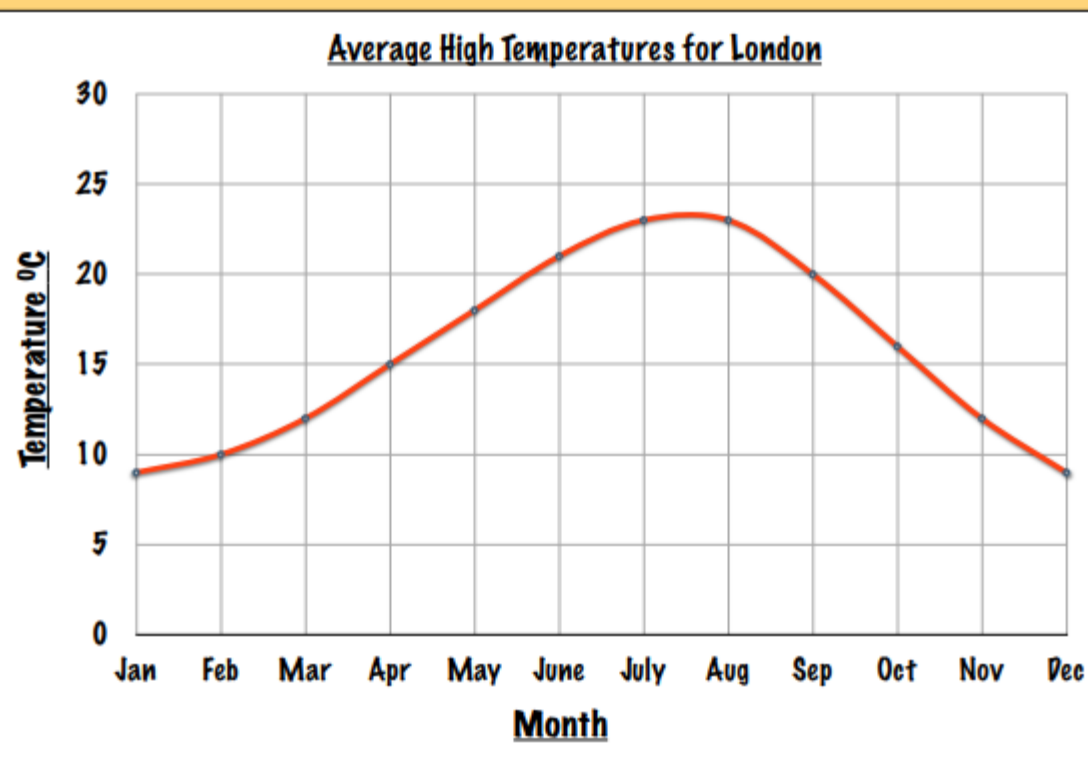
What was the hottest month?



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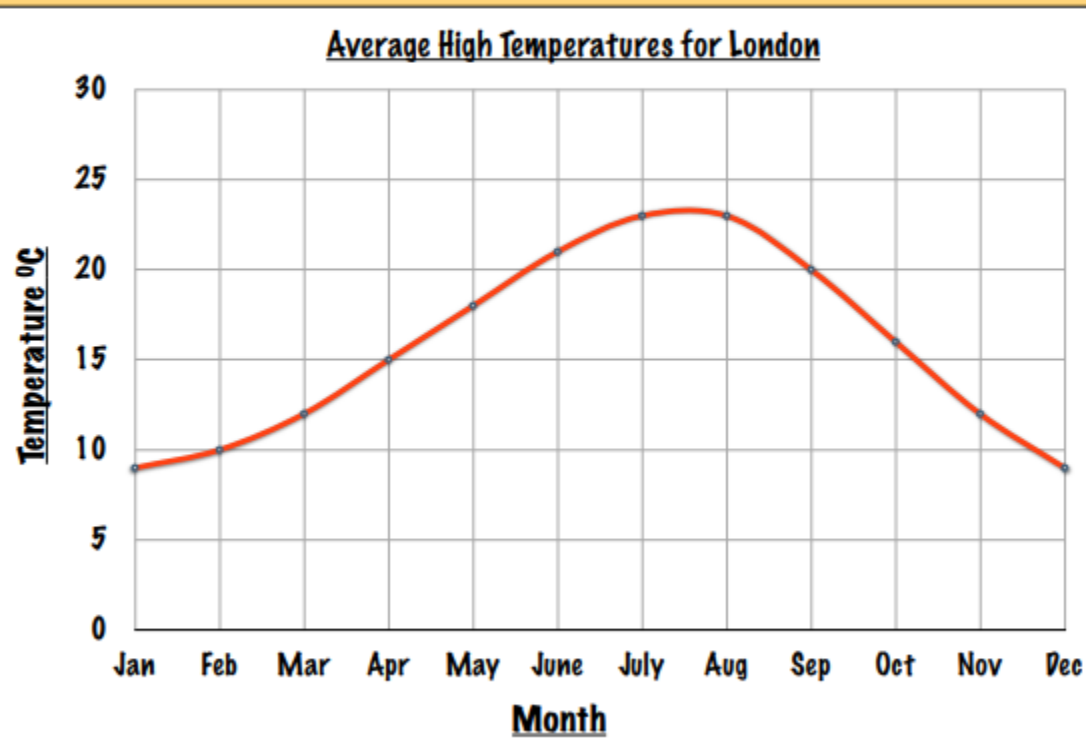
What was the temperature in September?



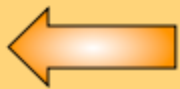
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What was the temperature in March?



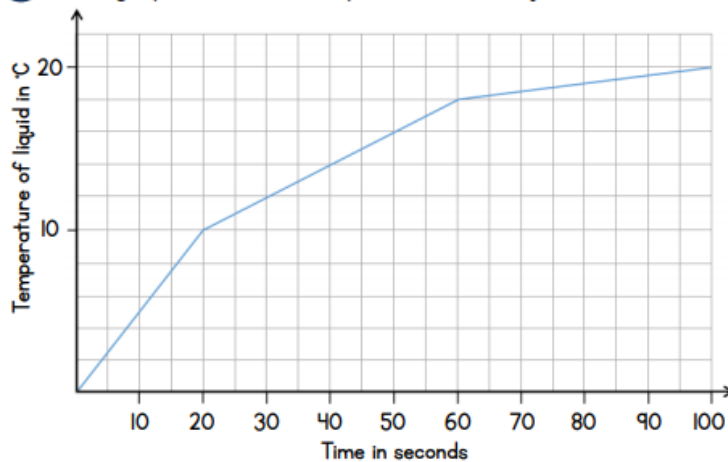
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Independent Challenge 2:

*Discuss the following questions with a talk partner...
Did you both reach the same answer?*

1 The graph shows the temperature of a liquid as it is heated.



How long does it take the liquid to reach 10°C?

_____ seconds

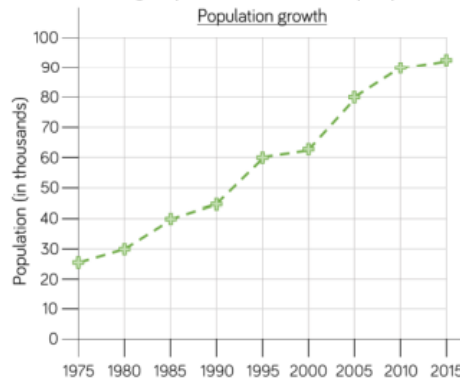
What is the temperature of the liquid after it is heated for 50 seconds?

_____ °C

How many degrees has the temperature increased by between 40 seconds and 80 seconds?

_____ °C

This line graph shows the population growth of a town.

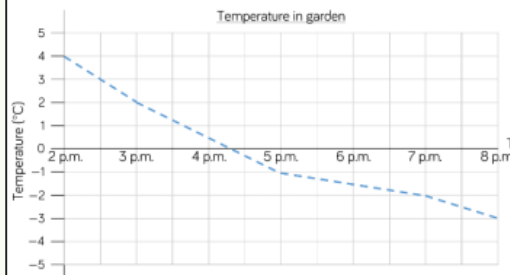


What was the population in 1985?

How much did the population grow between 1990 and 2010?

When was the population double the population of 1985?

Here is a line graph showing the temperature in a garden.



What was the temperature at 5 p.m.?

What was the difference in temperature between 3 p.m. and 7 p.m.?

When was the temperature 4°C?

Estimate the time when the temperature was 0°C.

Estimate the temperature at 6 p.m.