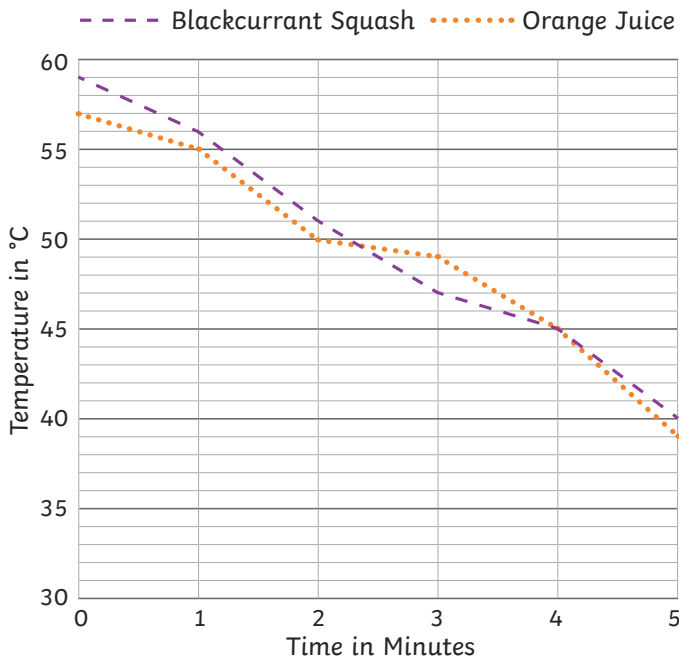
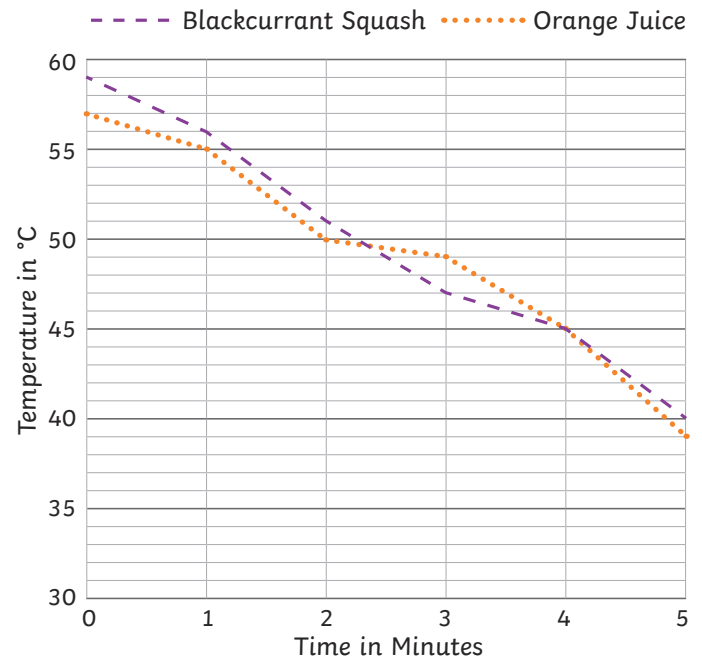


Class 5 are investigating how quickly two different liquids cool over five minutes. They start their investigation by warming the two liquids in the microwave and then measure the temperature of each liquid every minute as they cool down.



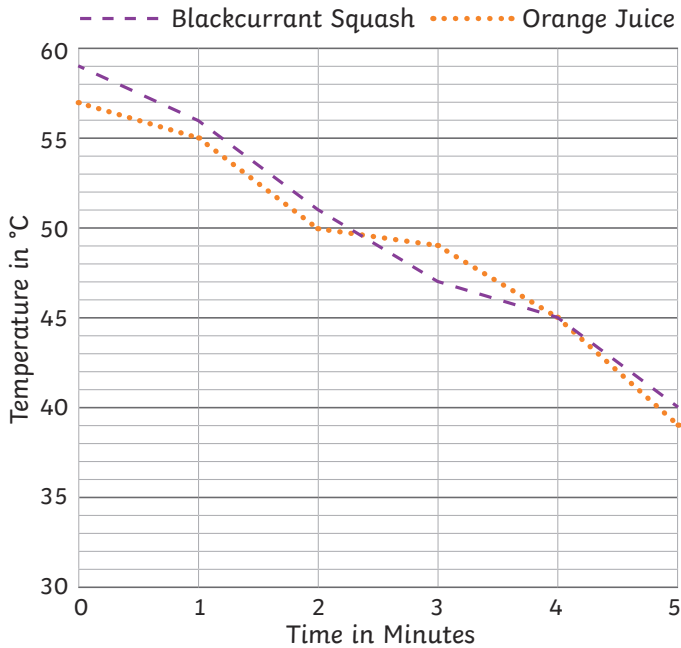
- 1) What was the temperature of the orange juice after two minutes?
- 2) At which minute was the temperature of the blackcurrant squash 47°C ?
- 3) By how many degrees did the temperature of the orange juice cool from minute 1 to minute 2?
- 4) By how many degrees did the temperature of the blackcurrant squash cool from minute 3 to minute 4?
- 5) Approximately, how long did it take for the temperature of the orange juice to drop by 10°C ?
- 6) By how many degrees did the temperature of the blackcurrant squash cool altogether?

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Use the line graph to decide whether each of the statements below are true or false. If you think the statement is false, explain the mistake you think the child has made when they read the line graph.



After two minutes, the difference in temperature between the two drinks was 1°C.

Jamal



After three minutes, the orange juice was cooler than the blackcurrant squash.

Kayden



The temperature of the blackcurrant squash dropped by 5°C between minute 2 and 3.

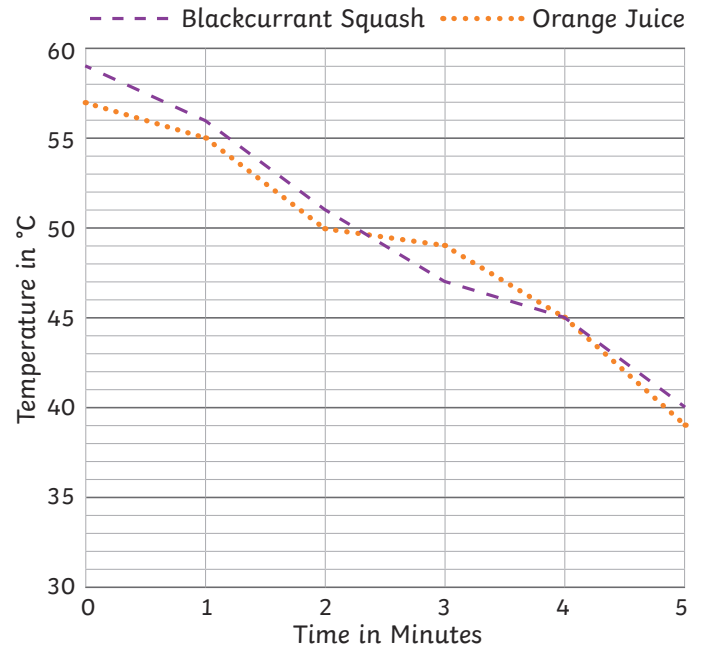
Molly



There was never more than a difference of 2°C between the temperatures of the two drinks.

Isha

Use the line graph to decide whether each of the statements below are true or false. If you think the statement is false, explain the mistake you think the child has made when they read the line graph.



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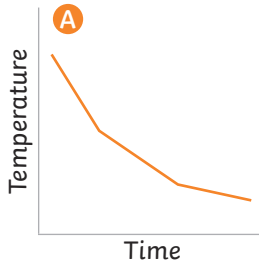
Molly



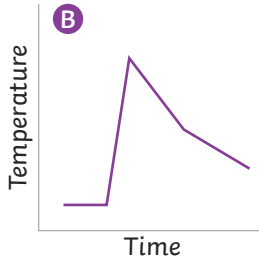
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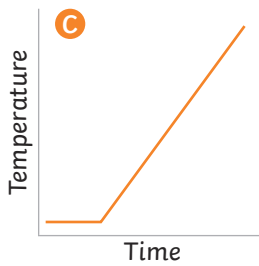
1) Match each graph to the correct story and explain your reasoning.



a) Zoe takes her hot chocolate out of the microwave. She then leaves the drink on the side to cool gradually before she drinks it at a pleasant temperature.



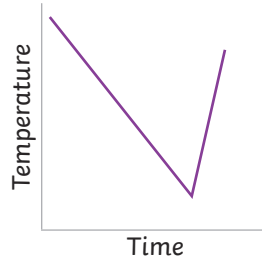
b) Ayaan takes his soup out of the fridge. He pours it into a saucepan and heats it gradually up on the hob.



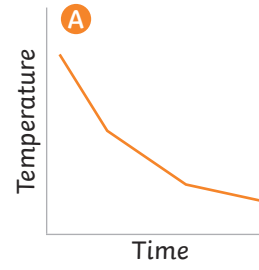
c) Zara takes her juice out of the fridge. The drink is too cold for her, so she warms it up quickly in the microwave. She must then wait a little while for it to cool so it isn't too hot to drink. But, when she does drink it, it is just right.



2) Eddie wants to eat some soup. Based on this line graph, write a story about how the temperature of the soup changed over time.



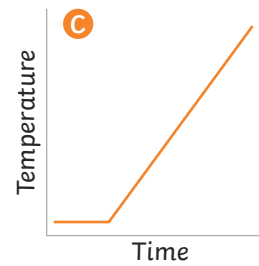
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c) Zara takes her juice out of the fridge. The drink is too cold for her, so she warms it up quickly in the microwave. She must then wait a little while for it to cool so it isn't too hot to drink. But, when she does drink it, it is just right.



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