

# Rates of dissolving

This task is about how temperature affects dissolving of sugar.

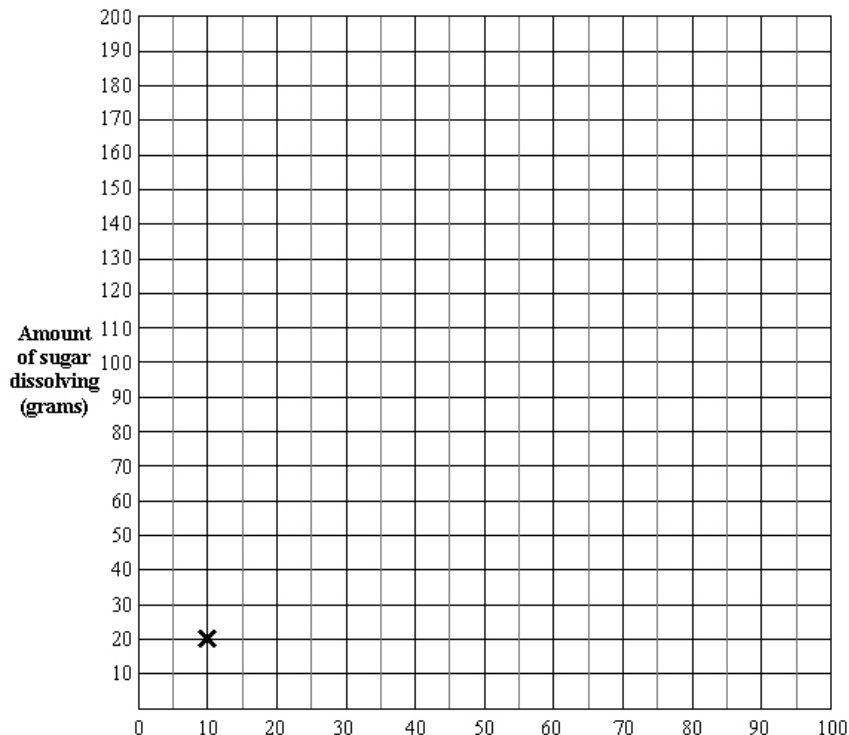
Amanda and Ned wanted to find out how much sugar would dissolve in water at different temperatures. For each temperature they tested, they put 100 mL of water into a cup, and then added sugar until no more would dissolve.

Here are their results.

Temperature (°C)	Amount of sugar dissolved (grams)
10	20
30	60
40	90
60	120
80	185

- a) Draw a line graph to show the above results. The first point has been done for you. Remember to make sure your graph has a title and a label with the correct unit for the bottom axis.

Title: \_\_\_\_\_



Label: \_\_\_\_\_ (Unit: \_\_\_\_\_)

b) Write a sentence about the temperature of the water as it increases and the amount of sugar that dissolves.

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c) Here are some results for salt dissolved in water of different temperatures.

<b>Temperature (°C)</b>	<b>Amount of salt dissolved (grams)</b>
10	30
30	30
40	30
60	30
80	30

Write a sentence about the temperature of the water and how much salt will dissolve.

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