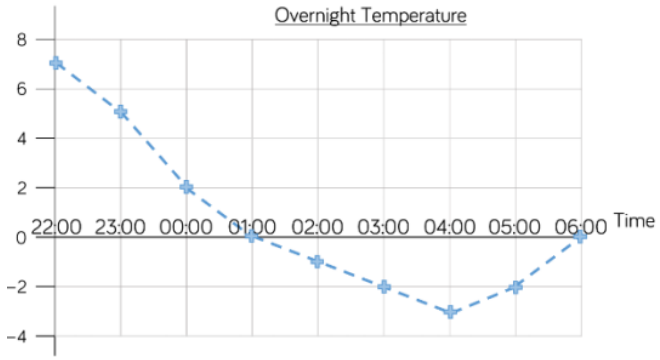
8.1.2021 (Monday) – L.I. Can I use line graphs to solve problems?

Lesson video: https://whiterosemaths.com/homelearning/year-5/week-7-statistics/ (Using line graphs to solve problems)



1. **This graph shows how the temperature changed over the course of one night.**

What is missing from the graph?

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What was the highest and lowest recorded temperature? What time did they occur?

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What is the difference between the temperature at midnight and the temperature at 4am? _____

How long did the temperature stay at freezing point or less? _____

2. **This graph shows how Eva's heart rate changes whilst she exercises.**

How long did it take for the pulse rate to reach the highest level? _____

What could have happened at 5 minutes?

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What could have happened at 7 minutes?

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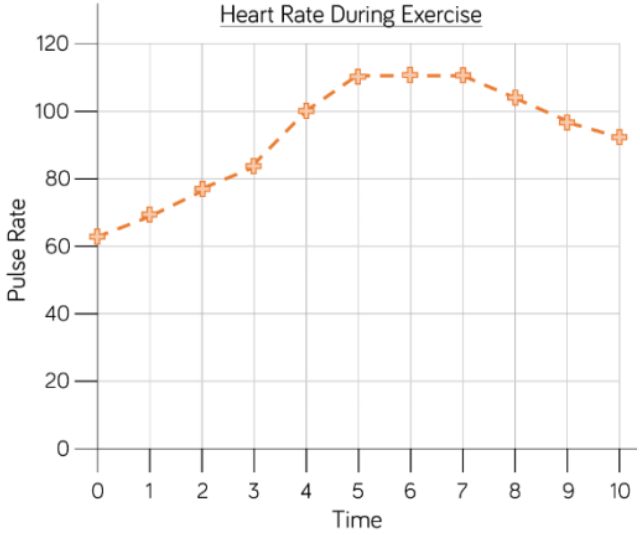
Estimate what the pulse rate was after 2 and a half minutes and explain how you got an accurate estimate.



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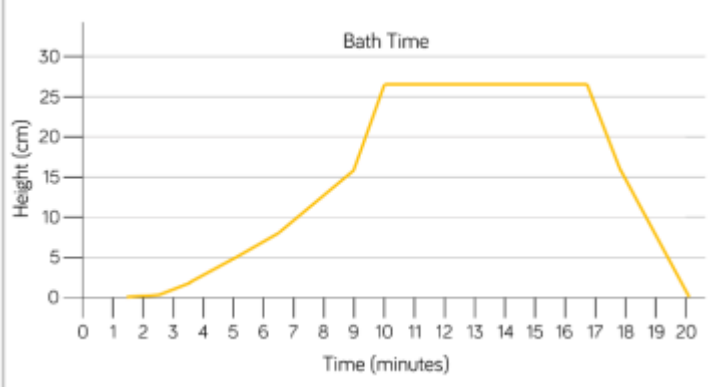
3. **Here is a graph showing a bath time.** Write a sensible explanation of what could have happened in bath time using the graph. Consider these questions. How long did it take to fill the bath? How long did it take to empty? The bath didn't fill at a constant rate, why might that be?



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4. **Carry out your own exercise experiment like the one Eva did.** How does yours differ to Eva's? Design a table to record your results in and use the results at the end to draw a line graph.