

What was the highest/lowest temperature?

What time did they occur?

What is the difference between the highest and lowest temperature?

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

Highest temperature =  $7^{\circ}\text{C}$

Lowest temperature =  $-3^{\circ}\text{C}$

Highest at 22:00

Lowest at 04:00

Difference between highest and lowest  $10^{\circ}\text{C}$

Temperature stayed at freezing point or less for 5 hours



How long did it take for the pulse rate to reach the highest level? Explain your answer, using the graph to help.

What could have happened at 5 minutes?

What could have happened at 7 minutes?

Estimate what the pulse rate was after 2 and a half minutes. How did you get an accurate estimate?

It took 5 minutes – The highest pulse rate is 110 and it stays at this rate from 5 minutes to 7 minutes. It took from 0 minutes, where the rate was around 62, to 5 minutes to get to the highest rate of 110.

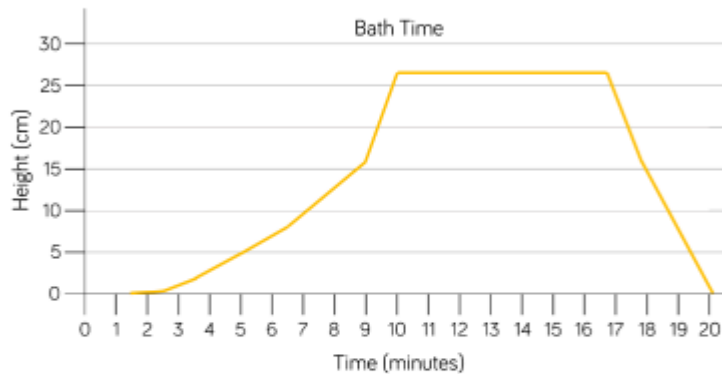
At five minutes, the person undertaking exercise could well have been putting the same amount of effort in, meaning his heart rate stayed at 110.

At seven minutes, the person undertaking exercise could have eased up on effort a little bit, causing his heart rate to drop.

80 pulse rate at 2 and a half minutes. You can get an accurate estimate by using something like a ruler and putting it on 2 and a half minutes, then moving up the line to accurately measure the pulse rate at that time.

Challenge:

Here is a line graph showing a bath time.  
Can you write a story to explain what is happening in the graph?



How long did it take to fill the bath?

How long did it take to empty?

The bath doesn't fill at a constant rate.  
Why might that be?

The bath is being filled from the start until 9 minutes. At this point, someone gets into the bath, causing the water level (height) to rise. At 10 minutes until 17 minutes, the person is in the bath until at 17 minutes they get out – the height of the water subsequently drops back to what it was at 9 minutes before the person got in. The bath then takes just over 3 minutes to empty.

Around 9 minutes.

Just over 3 minutes.

One tap may have been used to start then another tap may have been used at the same time.