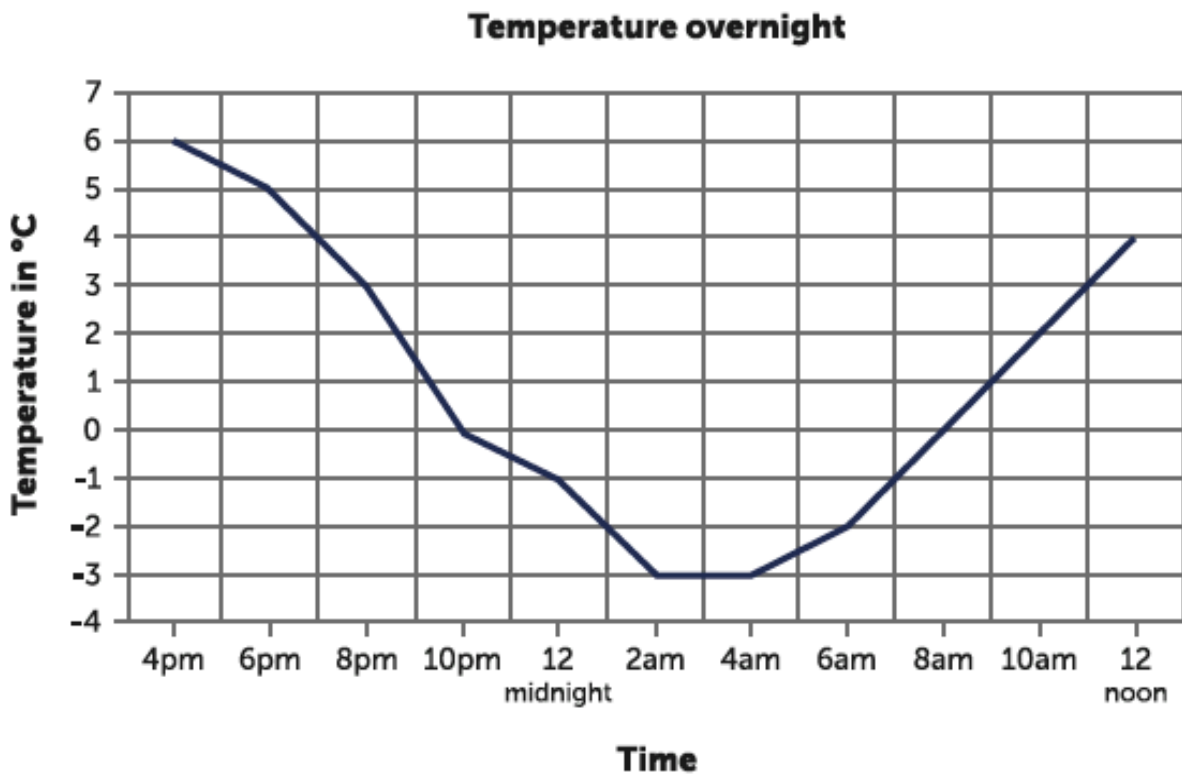LO: to use information in a line graph to compare and calculate

Our learning today also revisits negative numbers.

Look at the graph below. It shows the temperature plotted at 2-hour intervals overnight, for one night in January.

This line graph shows the temperature overnight one night in January

Do you notice that zero is not at the bottom of the y-axis? This is so that negative numbers can be included for when the temperature drops below freezing. Our graph goes down to -4°**c.**
At 2 am it is -3°**c.** That is very cold!
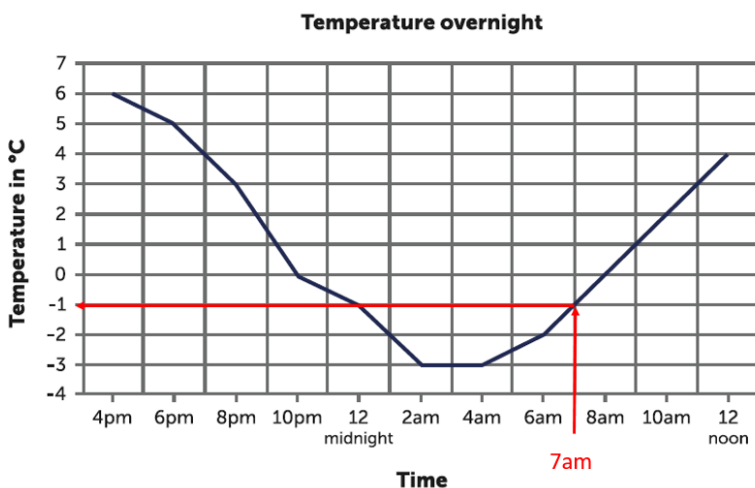
We can also use the graph to read the temperatures between the times labelled eg we can read the time for 7am as it is mid-way between 6am and 8am.

Use the graph to complete the table below to show the temperature at various times and then use the graph again to answer the questions.

Time	Temperature

1. What is the temperature at 8am?

2. At what time is the highest temperature recorded?

3. At what time is it -3°c?

4. What is the difference between the temperature at 12 midnight and the temperature at 12 noon?

5. What is the difference between the temperature at 6pm and the temperature at 12 midnight?

6. I'm thinking of two times for which the difference in temperature is 3° What could they be?

Sometimes line graphs contain more than one data line – like the one below.

Exercise and Pulse Rate

Compare the pulse rates of Sam and Sally after 30 minutes of exercise.

Whose pulse is higher and by how much?