

Plotting Line Graphs 1

The table below shows the temperature in Hull over a single day.

| Time | Temperature ($^{\circ}\text{C}$) |
|------|------------------------------------|
| 6am | 1.5 |
| 8am | 4 |
| 10am | 7.5 |
| 12pm | 12.5 |
| 2pm | 9 |
| 4pm | 6 |
| 6pm | 4.5 |

Draw a line graph (count up in 1s for the temperature axis) and plot this information on it. Put the times across the bottom and the temperature up the side. Then answer these questions:

1. At what time was it coldest?
2. Between which two times was the biggest change in temperature?
3. At what time would it be best to be outside? Explain your answer using 'because'.
4. Between which two times was the smallest change in temperature?

Plotting Line Graphs 2

The table below shows the height of a plant taken over fifteen weeks.

| Week | Height |
|------|--------|
| 1 | 1cm |
| 2 | 1.3cm |
| 3 | 2cm |
| 4 | 3.2cm |
| 5 | 4.5cm |
| 6 | 6.2cm |
| 7 | 8.2cm |
| 8 | 10.4cm |
| 9 | 12cm |
| 10 | 13.1cm |
| 11 | 13.8cm |
| 12 | 14.3cm |
| 13 | 14.5cm |
| 14 | 10cm |
| 15 | 8.5cm |

Draw a line graph in your book and plot this information onto it. Then answer these questions:

1. Between which two weeks did the plant grow the most?
2. What is the difference between the height in week 1 and the height in week 15?

3. What do you think happened in week 14?

4. How tall might the plant have been at 3 and a half weeks?

Now write some questions for yourself which could be answered by looking at the line graph. Provide the answers.