



Knowledge

- Two-way tables
- Timetables

Skills

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read and interpret tables

Vocabulary

Data, line graph, survey, tally chart, timetable, continuous data, scale, predict, pattern, interpret, label, axis, maximum value, minimum value

Inspirational Mathematician

Malala Yousafzai (1997-present)

Malala Yousafzai is a Pakistani activist for female educational rights, and the youngest person to win the Nobel Peace Prize. At just age 17, in her home province of Swat Valley, girls were banned from attending school by the Taliban. She took A-Level Mathematics and is currently studying at Oxford University. She has won many awards and has been named one of *Time Magazine's* "100 Most Influential People in the World"!

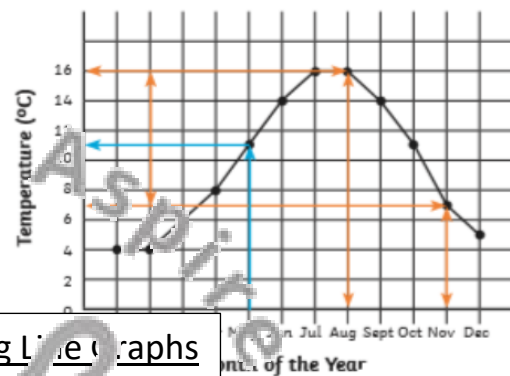


Read and Interpret Line Graphs

Here is a line graph showing the average temperature each month.

It is important to read all the labels carefully. The y-axis shows the temperature in intervals of 2°C on a scale of 0°C to 16°C.

The x-axis shows the months of the year. The points show the average temperature for each month.

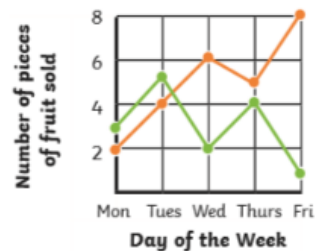


Reading Line Graphs

Here is a table showing the number of different types of fruit sold each day.

Day	Apples	Pears
Mon	2	3
Tues	4	5
Wed	6	2
Thurs	5	4
Fri	8	1

The graph can be used to represent the data.



Use Line Graphs to Solve Problems

To find the average temperature in May, follow the arrow up from May and across to the temperature. As this is halfway between 10°C and 12°C, the average temperature in May is 11°C.

To find the difference in average temperatures in August and November, find the temperatures for each month and calculate the difference between the two. The shape of the line graph can show how the temperature changed. The average temperature falls 9°C from August to November.

In order to understand the data presented in a table, you must read the table's title and headings. Remember to always look at the heading that each piece of information falls under.

Ticket Type	Weekday Price	Weekend Price
Adult	£6	£7.50
Child	£4	£4.50
Student	£5.50	£6

Tables

Timetables

Below is a bus timetable. The bus timetable shows the time the bus starts and its location, where it doesn't stop and the time it stops and its location.

Three different buses			
Bus stop locations	0726	0803	0842
Mill Road	0726		0842
High Street	0729	0803	
Pitsmoor Road	0759	0833	
Fulwood	0845	0919	0946