

### In this unit, I will:

- Learn to calculate the mean of a set of data
- Use the mean to find missing data
- Read and interpret pie charts using fractions
- Read and interpret pie charts using percentages
- Interpret and create line graphs

### How does this unit build on prior learning?

This unit builds on the skills children have gained in Year 5 interpreting and using line graphs. They learn what the mathematic mean is and how to calculate it and are introduced to pie charts.

*Before they start this unit, it is expected that children:*

- can plot and interpret simple line graphs
- are confident with dividing 2- and 3-digit numbers by a 1-digit number
- understand about angles of a circle
- can identify and calculate fractions of a circle
- can do calculations with percentages.

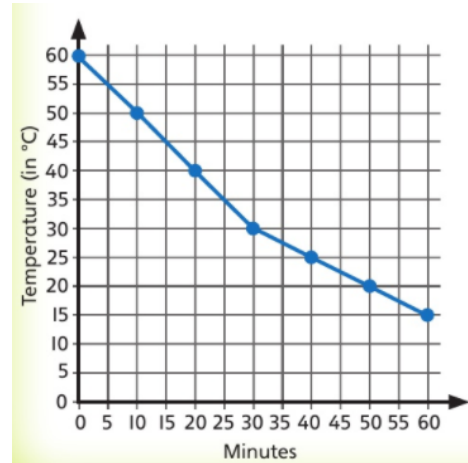
### National Curriculum Link - Year 6 Measurement

- Calculate and interpret the mean as an average.
- Interpret and construct pie charts and line graphs and use these to solve problems
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.
- Solve comparison, sum and difference problems using information presented in a line graph

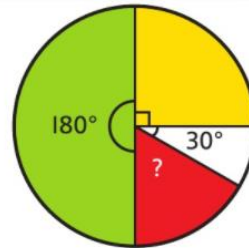
### To calculate the mean:

- Find the total of ALL the values (including any zeroes)
- Count the number of values
- Divide the total by the number of values

## Year 6 – Statistics



We will be interpreting line graphs.  
Here is a line graph that shows the temperature of a hot chocolate drink that was left to cool.  
What was the temperature of the hot chocolate after ten minutes?



We need to know that the angles around a point add up to 360°. Calculate the missing angle.

### Key Vocabulary

<b>mean</b>	Is the total of the numbers divided by the number of values there are.
<b>average</b>	It is the middle value in a set of numbers
<b>pie chart</b>	A type of graph which illustrates how different types of data fit into a whole.
<b>segment</b>	Each part of a pie chart is called a segment.
<b>line graph</b>	It is a graph which records data which changes over time (eg: temperature throughout the day).
<b>bar chart</b>	It shows the value of data and is represented by different bars.
<b>percentage</b>	It is a proportion of a whole and is shown as a part of 100.
<b>fraction</b>	Part of a whole number split up into equal parts.
<b>data</b>	Individual units of information collected for analysis