

Venn diagrams

Achieved?



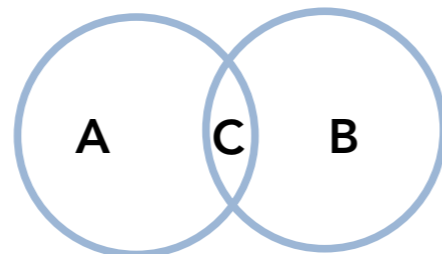
To achieve Level 4, you need to be able to read all kinds of sorting diagrams.

Venn diagrams may sound complicated but really they are just a way of sorting information into groups. Look at the diagram. There are three regions – **A**, **B** and **C**.

Region **A** belongs to group A.

Region **B** belongs to group B.

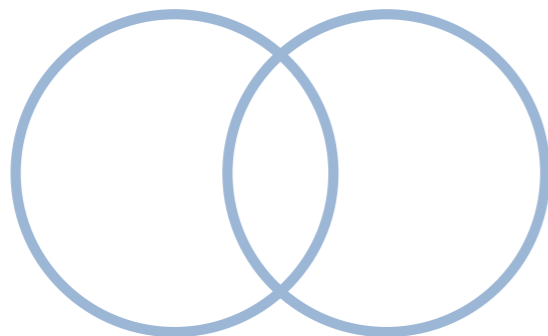
Region **C** belongs to group A and group B.



Let's practise!

Look at this table and sort the names into the Venn diagram. Decide on a description for each region.

Name	Likes swimming	Likes cycling
Ellie	x	✓
Ryan	✓	x
Junior	✓	✓
Abarna	x	✓
Nirogini	✓	x
Lisa	✓	✓
Alex	x	✓



1 Read the question then read it again.

We need to sort the names into groups and decide on definitions or labels for each of these groups.

2 Study the information given.

We can sort the information we have been given into three main groups: Group A (children who like swimming), Group B (children who like cycling) and Group C (children who like swimming and cycling).

3 Sort the information.

Write out the groups on rough paper first.

4 Check your answer against your table.

Check back to make sure you have included all the children in the right groups before completing your answer.

Negative numbers

Achieved?



To achieve Level 5, you must understand negative numbers. Be positive! **NEGATIVE NUMBERS ARE EASY.** Imagine a thermometer with positive and negative numbers, and chill out!

Let's practise!



Put these temperatures in order from the coldest to the warmest:
11°C, 5°C, -5°C, -4°C, 2°C, -12°C, 15°C



1 Read the question then read it again.

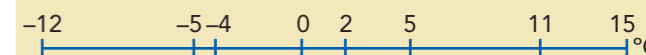
Negative numbers are colder than positive numbers.

2 Picture the numbers.

Group the numbers.
Negative: (-5, -4, -12)
Positive: (11, 5, 2, 15)

3 Study the numbers.

Draw a number line. Don't forget to include 'zero'. Decide where each number goes.



4 Check your answer.

Are the numbers in order? Check you have used every number.

5 If your answer looks sensible, write it in the box.

If not, go back to step 3 and try again.

Tips

★ Numbers are often called **INTEGERS**. Don't let this put you off. This just means **WHOLE** numbers without decimals!
These are integers: 1, 2, 3, 4
These are not integers: 5.6, 7.8, 11.3

★ When thinking of negative (-) numbers, think of a ladder going into a hole in the ground.
-2 is higher than -6
-2 is a larger number than -6
-5 is below -4
-5 is a smaller number than -4

