

Reach 100

Here is a grid of four "boxes":

You must choose four **different** digits from 1–9 and put one in each box. For example:

5	2
1	9

This gives four two-digit numbers:

52(reading along the 1st row)

19(reading along the 2nd row)

51(reading down the left hand column)

29(reading down the right hand column)

In this case their sum is 151.

Try a few examples of your own.

Is there a quick way to tell if the total is going to be even or odd?

Your challenge is to find four **different** digits that give four two-digit numbers which add to a total of 100.

How many ways can you find of doing it? (Aim for one solution per day).

How to get started

Simply writing out the numbers 1–9 along the top of your paper can be a great help.

Imagine arranging your four two-digit numbers in columns to do the addition sum, like this:

52
19
51
29

If the total has to be 100, think about how the four digits you choose could add to make the 0 in the units column, then look at the tens column.