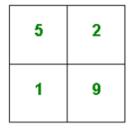
<u>Friday Maths Challenge – Reach 100</u>

Here is a grid of four "boxes":

You must choose four $\operatorname{\bf different}$ digits from 1-9 and put one in each box. For example:



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 $\mbox{\bf different}$ digits that give four two-digit numbers which add to a total of 100.

How many ways can you find of doing it?

Hint ...

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

52

19

 $5\overset{1}{1}$

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.