Friday 22nd January

Dear Year 5,

Maths Problem Solving Activity

Using your learning of decimal place value, have a go at one of these problem-solving activities. The first activity is easier, the second more challenging so choose the activity which best fits your ability. If you usually work in a supported group try the first, if you usually try the challenge try the second ☺

Two digit targets (Easier)

You have a set of the digits from 0 - 9.

0	1	2	3	4	5	6	7	8	9

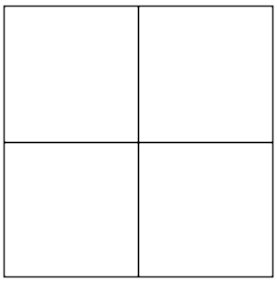
Can you arrange these digits in the five boxes below to make two-digit numbers as close to the targets as possible? You may use each digit once only.

largest even number	☐☐
largest odd number	☐☐
smallest odd number	☐☐
largest multiple of 5	☐☐
number closest to 50	☐☐

How will you know that your solution is as close to the targets as possible?
You can also try this activity using decimal numbers.

Reach 100 (Tricky)

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?