

**Year 3 Maths Tasks – Tuesday 23rd June 2020**

**Parents and Children**: Hello everyone, today we will test our place value learning further.

As I stated yesterday, understanding place value underpins all our work and learning on addition, subtraction, multiplication and division. Knowing the value of each digit in a number is of paramount importance before moving on to Year 4.

Today you have an opportunity to show a deeper understanding of place value.

**A** Write the value of the numbers represented by \* in the matrix below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ? | 100s | 10s | 1s | Number |
|   | \*\*\* | \*\* | \* |   |
|   | \*\*\*\*\* | \*\*\* | \*\*\*\*\*\* |   |
|   | \*\* | \*\*\* |   |   |
|   |   | \*\* |   |   |
|   | \*\* |   | \*\*\* |   |
| \* | \*\* | \*\*\* | \*\*\*\* |   |

**What value can we replace the question mark with in the matrix?**

**B** To which set do the following numbers belong?

**213 147 76 7 245 189 102 171 67 199 201**

|  |
| --- |
| 1-50 |
| 51-100 |
| 101-150 |
| 151-200 |
| 201-250 |

**C** Harry has 3 cards – six, eight and five.

|  |  |  |
| --- | --- | --- |
| 6 | 8 | 5 |

Make up as many 3-digit numbers as you can using these three cards.

How many 3-digit numbers can you make if you could use each card twice?

How many can you make if you could use each card three times?

**D** There are six numbers below. Each has missing digits. Add a digit to each so that the number on top is always **smaller** than the number beneath it.

|  |  |  |
| --- | --- | --- |
|   | 7 | 2 |
| 3 |   |   |
| 5 |   | 7 |
| 5 | 2 |   |
|   | 6 | 8 |
| 8 |   | 0 |

**E** Create two 3-digit numbers that have a difference of more than 10 with the ones digit being 7 and the hundreds digit being 6.

**F** Create a 3-digit number where the sum of the 3 digits adds up to 12.

What is the largest number you can make?

What is the smallest number you can make?

**G** Look at the six cards with digits on below.

How many 3 digit numbers can you make from the set:

a If you use the digits just once?

b If one of the digits has to be in every number?

c If two digits have to be in every number?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7 | 5 | 0 | 8 | 1 | 3 |

**(Optional task)**

**H** Make a set of 20 cards with numbers between 0 and 1000 written in words. There should be a good mix of larger and smaller 3-digit numbers as well as the occasional 2 digit and one digit number.

Now make a set of cards with the corresponding set of numbers on.

With a friend or adult think of a suitable game to play. Make up and write out the rules.