Big Ideas in Number Resource Information

Big Ideas in Number Focus Area: **Place Value**

Name of Game or Activity: 2, 3, 4, 5 & 6 digit numbers.

Instructions: Using the template attached students need to label place value columns above the box. Then they need to roll a dice multiple times to fill numbers in the boxes. Depends on the ability of the student to what dice you choose. Students need to write each number they roll down. You can give instructions for biggest, smallest or just any number. Students need to write the total number in digits, worded form, complete the expanded form, rename the place value of numerals and record what the number would change to if you added 1 more, 10 more, 1 less and 10 less etc.

Resources: BliN sheet and you can give children the one that they are needing to work on for easy differentiation. You can use as a warmup in a sleeve or have children do a hard copy of this activity.

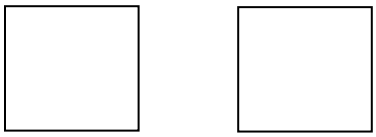
BliN Micro Content

Order of digits makes a difference	
Additive property – The quantity represented by the whole numeral is the sum of the values represented by the individual digits	
Positional property – The quantities represented by the individual digits are determined by the position they hold within the whole numeral	
Base 10 property – The value of columns or positions increases by a power of 10 moving right to left and decreases by a power of 10 moving from left to right	
Multiplicative property – The value of a number is determined by the products of its face and place values	
There are patterns in the way we read and say numbers	
There are patterns in the way we write numbers	
Patterns in the number system can help us build other numbers	
Place value columns have names	
Zero can hold a place	
A 10 group is seen as a special entity which can be counted	
The term 10 group can be applied to 'ten tens' or 'ten hundreds' and so on	
We can skip count by ten, hundred etc. both forwards and backwards in place value parts	
Numbers can be partitioned in flexible ways using standard and non-standard partitions	
Number partitioning can be shown as indicative of digit value and place value. For example, 26=20 + 6 or (2x10) + (6x1)	

Big Ideas in Number Resource Information

Place Value 2 digits

Put place value columns above boxes then roll the dice to get your numbers.



Write your number in numerals _____

Write the number in words _____

_____

Write the place value of the numerals in the number

_____

Rename the place value of the numerals in the number

_____

_____

_____

What would the number be if it had:

1 more _____

10 more _____

1 less _____

10 less _____

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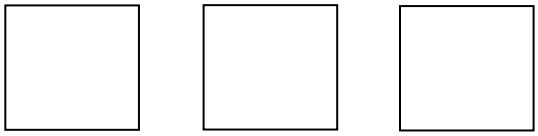
Place Value 3 digits

Put place value columns above boxes then roll the dice to get your numbers.



Roll the 3 dice to get your number.

Write your number in numerals _____

Write the number in words _____

_____

Write the place value of the numerals in the number

_____

Rename the place value of the numerals in the number

_____

_____

_____

What would the number be if it had:

1 more _____

10 more _____

1 less _____

10 less _____

100 more _____

100 less _____

Make 2 different numbers from your 3 digits and try to get as close as possible to 500.

Repeat all of the above steps as many times as you can this lesson.

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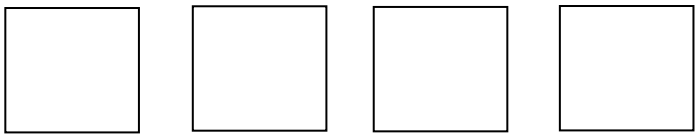
Place Value 4 digits

Put place value columns above boxes then roll the dice to get your numbers.



Write your number in numerals _____

Write the number in words _____

_____

Write the place value of the numerals in the number

_____

Rename the place value of the numerals in the number

_____

_____

_____

What would the number be if it had:

1 more _____

10 more _____

1 less _____

10 less _____

100 more _____

100 less _____

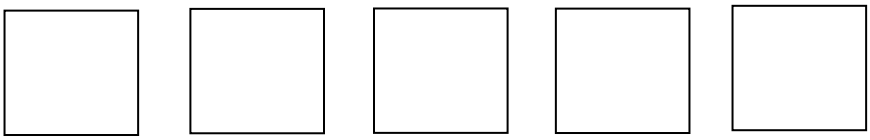
1000 more _____

1000 less_____

Big Ideas in Number Resource Information

Place Value 5 digits

Put place value columns above boxes then roll the dice to get your numbers.



Write your number in numerals _____

Write the number in words _____

_____

Write the place value of the numerals in the number

_____

Rename the place value of the numerals in the number

_____

_____

_____

What would the number be if it had:

1 more _____

10 more _____

1 less _____

10 less _____

100 more _____

100 less _____

1000 more _____

1000 less_____

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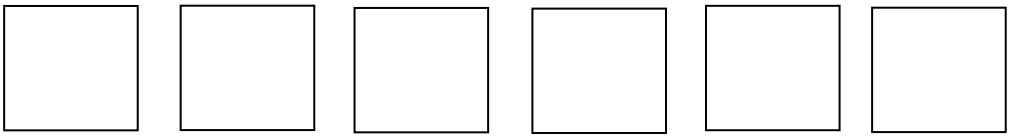
Place Value 6 digits

Put place value columns above boxes then roll the dice to get your numbers.



Write your number in numerals _____

Write the number in words _____

_____

Write the place value of the numerals in the number

_____

Rename the place value of the numerals in the number

_____

_____

_____

What would the number be if it had:

1 more _____

10 more _____

1 less _____

10 less _____

100 more _____

100 less _____

1000 more _____

1000 less_____