The Value of Each Digit in a Number

Digits

A digit is a single numeral

There are 10 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9

Every other number is made from combining these digits

1 digit numbers

0
1
2
3
4
5
6
7
8
9

Digits

Can you think of some 2 digit numbers?	Can you think of some 3 digit numbers?	Can you think of some 4 digit numbers?
13	467	1,256
26	312	7,893
34	897	4,674
57	692	9,032
89	158	5,810
All the numbers from 10 to 99	All the numbers from 100 to 999	All the numbers from 1,000 to 9,999

Place Value

Value means what something is worth

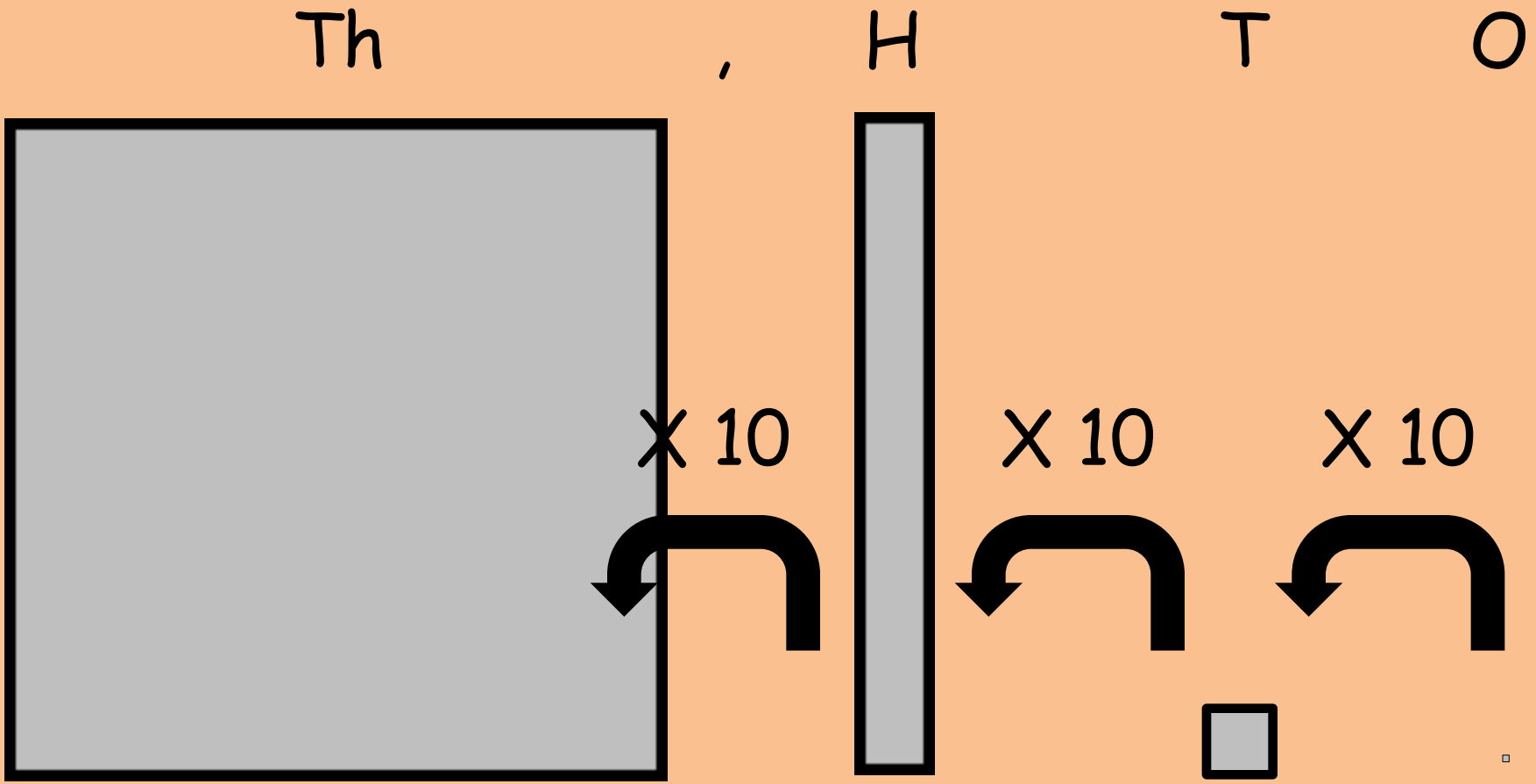
The place of a digit within a number decides its value

The value of the digits in blue in each number below is different because the digit is in a different place

1	4	8
10	46	81
100	439	868
1,000	4,672	8,295

Base Ten

For each place that a digit moves to the left, it is worth ten times as much



Zero As a Place Value Holder

We represent this by using zero as a 'place value holder'

The zero is not worth anything itself, but it changes the value of the other digit

Th	,	H	T	O
				4
			40	
		400		
4,000				

Place Value

What is the value of the blue digits in each number?

1	4	8
10	46	81
100	439	868
1,000	4,672	8,295

M , HTh TTh Th , H T O

Ones

Tens

Hundreds

Thousands

Ten thousands

Hundred thousands

Millions

M	,	HTh	TTh	Th	,	H	T	O
								4
							40	
						400		
					4,000			
				40,000				
			400,000					
		4,000,000						