

Name: _____
First Last

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Resource Page

NBT.1 Place Value

Goal: To understand that in multi-digit numbers, a digit in one place represents 10 times what it represents in the place to its right and $\frac{1}{10}$ of what it represents in the place to its left.

Vocabulary:

Tenths, hundredths, thousandths: The names of the decimal place.

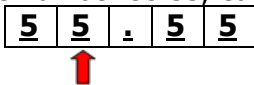
Example: 4.563

Four *and* five hundred sixty three thousandths

Ones	Decimal Point	Tenths	Hundredths	thousandths
4	.	5	6	3

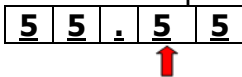
Example 1: Compare the value of the digits in the tenths and hundredths place.

In the number 55.55, each digit is 5, but the value of the digits is different because of the **placement**.



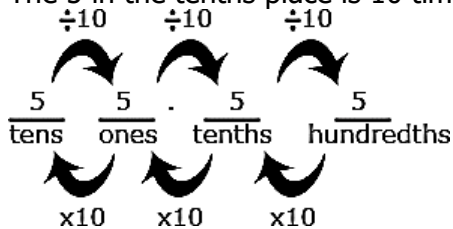
The 5 that the arrow points to is $\frac{1}{10}$ of the 5 to the left and 10 times the 5 to the right.

The 5 in the ones place is $\frac{1}{10}$ of 50 and 10 times five tenths.



The 5 that the arrow points to is $\frac{1}{10}$ of the 5 to the left and 10 times the 5 to the right.

The 5 in the tenths place is 10 times five hundredths.



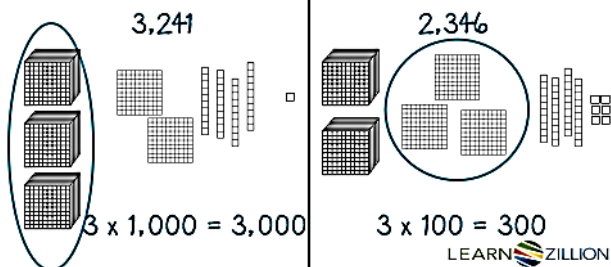
The 5 in the **tenths** place is **10 times** the 5 in the **hundredths** place.

The 5 in the **hundredths** place is $\frac{1}{10}$ of the 5 in the **tenths** place.



Example 2: What is the value of the 3 in 3,241 and in 2,346?

Draw a base-ten model for both numbers.



Explanation:

The 3 in 3,241 is 10 times the value as 3 in 2,346.

Explanation:

The 3 in 2,346 is $\frac{1}{10}$ the value as 3 in 3,241.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths
100,000	10,000	1,000	100	10	1	· "and"	.1 - or - $\frac{1}{10}$.01 - or - $\frac{1}{100}$.001 - or - $\frac{1}{1,000}$

554.3



The 5 in the tens place is $\frac{1}{10}$ the value of the 5 in the hundreds place

			5	5	4	.	3		
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The 5 in the hundreds place is 10 times the value as the 5 in the tens place

1,676.91

÷100



The 6 in the ones place is $\frac{1}{100}$ the value of the 6 in the hundreds place

		1	6	7	6	.	9	1	
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The 6 in the hundreds place is 100 times the value as the 6 in the ones place

3,598.84

÷10



The 8 in the tenths place is $\frac{1}{10}$ the value of the 8 in the ones place

		3	5	9	8	.	8	4	
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The 8 in the ones place is 10 times the 8 in the tenths place

Value versus Place Value:

382

Hundreds	Tens	Ones
3	8	2

What is the value of the 8? Answer: 80 or 8 tens

What is the place value of the 8? Answer: tens

7,394

Thousands	Hundreds	Tens	Ones
7	3	9	4

What is the value of the 3? Answer: 300 or 3 hundreds

What is the place value of the 3? Answer: hundreds