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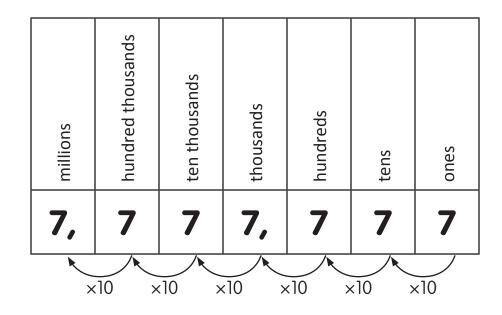
READ & LEARN

Name: _____

Powers of Ten

How does a number's position tell us its value?

A digit in one place is 10 times the value of the digit to its right.



The 7 in the hundreds place represents 700.

The 7 in the tens place represents 70.

Likewise, a digit in one place is $\frac{1}{10}$ of the value of the digit to its $\frac{\textbf{Left}}{\textbf{Left}}$.

So, a 7 in the tens place is $\frac{1}{10}$ the value of a 7 in the hundreds place.



5 millions, 6 hundred thousands, 0 ten thousands, 2 thousands, 8 hundreds, 9 tens, 1 one

Place Value

PARTNER & PRACTICE

Name: _____

Powers of Ten

Work with your partner to solve these practice problems.

2. 4 thousands + ______ + 9 tens + 5 ones =
$$4,395$$

3. Circle the digit that represents $\frac{1}{10}$ of the digit in the thousands place.

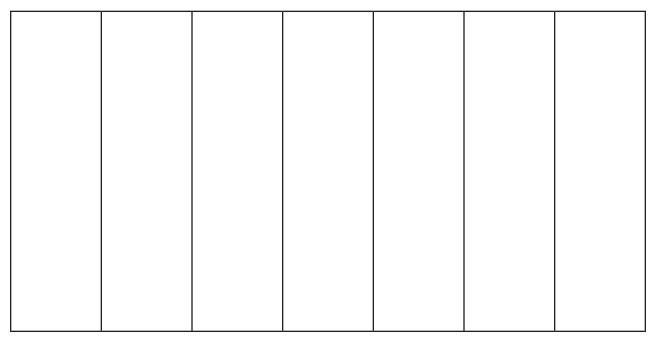
- 4. How will the value of 9,289,345 change if the number 8 is replaced by the number 1?
- **5.** Look at the number below. How much will the number decrease if the number 4 is replaced by the number 1?

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Powers of Ten

Focus on what you learned. Find the answers.

1. Put the following labels in the correct spot in the table: hundred thousands, ones, ten thousands, millions, thousands, hundreds, tens



- 2. Which place value represents 10 times more than the hundred thousands place?
- **3.** 563,429 = ______ + 6 ten thousands + 3 thousands + 4 hundreds + 2 tens + 9 ones
- **4.** How will the value of 18,246,310 change if the number 6 is replaced by the number 5?
- **5.** 6 hundred thousands + 9 tens + 5 ones = _____

Place Value

THINK & WRITE

Name:	

Powers of Ten

Think about the powers of ten in place value. Write about what you learned.

1.	Why do you think a digit in one place represents 10 times as much as it represents in the place to its right, and $\frac{1}{10}$ of what it represents in the place to its left? You may want to include a drawing to help illustrate your point.					
2.	Which of the follow	wing numbers have 2 25,890	hundred thousands?	How do you know? 12,456,001		
3.	What is the most interesting thing you learned about the powers of ten?					