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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.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
7,	7	7	7,	7	7	7	
↖ x10		↖ x10		↖ x10		↖ x10	

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 left.

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

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

Name: _____

Powers of Ten

Work with your partner to solve these practice problems.

1. $5,000,000 + 300,000 + 50,000 + 2,000 + 100 + 7 =$ _____

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.

5,555,555

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?

4,562,389

Name: _____

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

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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 = _____

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 following numbers have 2 hundred thousands? How do you know?

125,380

225,890

3,256,421

12,456,001

3. What is the most interesting thing you learned about the powers of ten?
