

**Lesson:** Number and Operations – Rational Numbers

**4<sup>th</sup> Grade Objective:** 1.01 Develop number sense for rational numbers 0.01 through 99,999.  
1.01b – Build an understanding of place value (hundreds, through ten thousands).

**Vocabulary:**

Rational Numbers include whole numbers, terminating or repeating decimals, and numbers that can be written as fractions. Rational numbers can be written using digits, words, or drawings.

Whole Numbers are numbers that show ones, tens, hundreds, and so on.

0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 are the digits used to write whole numbers.

5,278 represents a number written in standard form using digits to represent the number.

Five thousand, two hundred seventy eight is written in word form.

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**Lesson**

This place-value table shows the values of the digits **15,278.64**

Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths
1	5	2	7	8	.	6	4

This place-value table shows the values of the digits 80,401

Ten Thousands	Thousands	Hundreds	Tens	Ones
8	0	4	0	1

Notice that there are no thousands or tens. This is why a **0** is written in those places. The zero is used to show that there are no digits in that place value.

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Commas separate groups of digits so that you can read large numbers more easily. Start at the far right of the number. Work your way to the left, place a comma to the left of every 3<sup>rd</sup> digit.

75,894

When writing a number in word form it is important to remember that the commas will remain in the same place in the word form of the number as they do in the standard form of the number.

Seventy-five thousand, eight hundred ninety-four

**Practice**

1. Write the digits of the following numbers in the correct places in the table.

86,472

98,345

74,321

Ten Thousands	Thousands	Hundreds	Tens	Ones

Write the following numbers in word form.

2. 86,472: \_\_\_\_\_  
\_\_\_\_\_

3. 98,345: \_\_\_\_\_  
\_\_\_\_\_

4. 74,321: \_\_\_\_\_  
\_\_\_\_\_

5. In the number 87,659 which digit is in the hundreds place? \_\_\_\_\_

6. In the number 57,044 which digit is in the tens place? \_\_\_\_\_

7. What place value in the "4" located in the number 74,652? \_\_\_\_\_

8. Write the number eighty-seven thousand, four hundred in standard form. \_\_\_\_\_