

Mathematics
Place Value

Place value is the position of a digit in a number. A digit's place in a number shows its value. Numbers left of the decimal point represent **whole numbers**. Numbers right of the decimal point represent a part, or fraction of a whole number. These parts are broken down into tenths, hundredths, thousandths and so on.

Example:

3,567,809.124

<i>Millions</i>	<i>Hundred thousands</i>	<i>Ten thousands</i>	<i>Thousands</i>	<i>Hundreds</i>	<i>Tens</i>	<i>Ones</i>	<i>Tenths</i>	<i>Hundredths</i>	<i>Thousandths</i>
3	5	6	7	8	0	9	.1	2	4
←----- whole numbers -----→							←----- fractions -----→		

Standard Form: 3,409, 505, 303

Expanded Form: 3,000,000,000 + 400,000,000 + 00,000,000 + 9, 000,000 + 500,000+ 00,000 + 5,000 + 300 + 00 + 3

Word Form: three billion, four hundred nine million, five hundred five thousand, three hundred three.

Short Word Form: 3 billion, 409 thousand, 303

Practice: Write the **value** of the following numbers:

0 _____	7 _____
3 _____	8 _____
5 _____	9 _____

Read the number 2, 345, 987. 160. Write **place** of each number.

0 _____	5 _____
1 _____	6 _____
2 _____	7 _____
3 _____	8 _____
4 _____	9 _____

Write the numbers in standard form:

- a. Seven hundred, eight four _____
- b. Sixty eight thousand, three hundred eight _____
- c. Two billion, five hundred twenty nine million, nine hundred thirty three thousand, fourteen _____

Read the number: 345, 957. Write this number in:

- a. Word form

- b. Short word form

- c. Expanded form

- d. Standard form
