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 tents, hundredths, thousandths and so on.

Example:

3,567,809.124

Millions	*Hundred thousands*	*Ten thousands*	*Thousands*	*Hundreds*	*Tens*	*Ones*	*Tenths*	*Hundredths*	*Thousandths*
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

_____