)	
Name:	Teacher	
Tallic.	14 12 (21 (2)	-

Date:

Place Value

Place: The location of a digit in a number.

Value: How much the digit is worth.

The name or symbol used to represent a number (#) is called a **Numeral**.

Each digit has a certain place value.

hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	units	• decimal	tenths	hundredths	thousandths	len thousandths
								8	,	2	9		
					7		2	2		0	D	2	5

Reading a Decimal Number:

In a decimal number, the place value of a digit depends upon its place in the number.

8.29 eight and twenty-nine hundredths 1122.0025 One thousand one hundred twenty two and twenty- five ten thousandths.

Face Value

Tells you how many ones, tens, or hundredths, there are

Standard Form

 The full number Example: 645 124

Expanded Form

Writing a number showing the total value of each digit

Example: 645 124

 $6 \times 100\ 000 + 4 \times 10\ 000 + 5 \times 1000 + 1 \times 100 + 2 \times 10 + 4 \times 1$

so $645\ 124 = 600\ 000 + 40\ 000 + 5\ 000 + 100 + 20 + 4$

Word Form

• Writing a number using words. **Note that we use the word <u>and</u> for a decimal Example: 8.29 is written as eight and twenty-nine hundredths.

Name: _____

Date: _____

Expanded Form Practice

Complete the expanded form of the following numbers:

4)
$$4826 = 1000 \times 4 + 100 \times 8 + 10 \times 2 + 1 \times 10$$

5)
$$219.2 = \frac{200}{100 \times 2} + \frac{10}{10 \times 1} + \frac{9}{1 \times 9} + \frac{0.2}{0.1 \times 2}$$

Standard Form Practice

Write the standard form of these expanded form numbers:

3)
$$1000 \times 4 + 100 \times 5 + 1 \times 3 = 4503$$

4)
$$100 \times 9 + 1 \times 8 + 1/10 \times 5 = 908.5$$