Expressing Decimal Numbers in Word Form
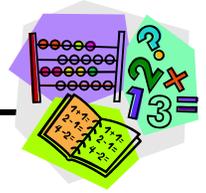
When reading decimal numbers, the decimal can be expressed by saying *decimal*, *point* or *and*.

Examples **A)** 307 518.537

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths
3	0	7	5	1	8	●	5	3	7

- Three hundred seven thousand five hundred eighteen AND five hundred thirty-seven thousandths

OR

- Three hundred seven thousand five hundred eighteen DECIMAL five hundred thirty-seven thousandths

OR

- Three hundred seven thousand five hundred eighteen POINT five hundred thirty-seven thousandths

B) 54 763.04

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths
	5	4	7	6	3	●	0	4	

- Fifty-four thousand seven hundred sixty-three AND four hundredths
- Fifty-four thousand seven hundred sixty-three DECIMAL four hundredths
- Fifty-four thousand seven hundred sixty-three POINT four hundredths

Zero is a **place holder**. Zeros can be added to the **right** of the final digit in a decimal number and the value of the number remains the same.

Examples

A) 0.56, 0.560 and 0.5600 have the same value.
B) 0.08, 0.080 and 0.0800 have the same value.

Zeros between the decimal and the digits to the right of the decimal hold place values of tenths, hundredths, thousandths, and so on, as needed.

Example

0.27, 0.027 and 0.0027 do not have the same value.

Practice: Expressing Decimals in Word Form

1. Write the following decimal numbers in the chart:
   a) 405 867.39
   b) 301.70
   c) 10 590.01
   d) 26.703

	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths
a)							●			
b)							●			
c)							●			
d)							●			

   Take turns with a classmate and say the decimal numbers in words.

2. Write the decimal numbers below in numeric digits.

   a) Twelve thousand seven hundred three and eighty-eight hundredths
   b) Sixty-eight thousand twenty-nine and five hundredths
   c) Three million fifty-four thousand nine hundred eight and fourteen hundredths
   d) Three thousand four hundred seventy-six and twenty hundredths

3. Complete the blank spaces in the chart below. The first one has been done for you.

Fraction	Decimal	Money Value	Word Form
$\frac{37}{100}$	0.37	$0.37	thirty-seven cents
	0.80		
		$0.29	
			eighteen cents
$\frac{4}{100}$			
			nineteen cents
		$0.53	
	0.41		
$\frac{76}{100}$			

Write a statement about the pattern of writing decimals and money forms of numbers.

4. Kevin works in a clothing store. Kevin must record the prices in both word form and money value (decimal form) for store records.

Fill in the missing blanks in the chart below.

Item	Word Form	Money Value
Yellow sweat shirt		$16.90
Blue jeans		$45.99
White T-shirts	seven dollars and sixty-five cents	
Ladies' vest	twenty-one dollars and eight cents	
Men's dress shirt		$12.38
Dress pants		$19.42
Leather belt	eight dollars and seventy-seven cents	

5. Challenge!
   Keep a record of all the things you spend money on in a week and record the cost of each item in words and numbers. Compare your list with the lists of your classmates.

6. Treena is building a doll house for her cousin. She wants it to be perfect so she is taking precise measurements. Identify the digit that is in the tenths position and the digit that is in the hundredths position, and record them in the chart below. The first one has been done for you.

Item	Measurement	Tenths	Hundredths
Height of door	20.654 cm	6	5
Width of door	7.23 cm		
Height of wall	26.340 cm		
Length of wall	24.035 cm		
Length of roof	30.324 cm		
Width of roof	27.045 cm		

Practice: Expressing Money in Word Form

1. Fill in the chart with the following money values. The first two have been done for you.

    a)   Two hundred twenty-six dollars and thirty-four cents
    b)   Thirty-nine dollars and two cents
    c)   Six hundred seventy-one dollars and fifty cents
    d)   Seven dollars and eighty-nine cents
    e)   Four hundred dollars and ten cents
    f)   Fifty-one dollars and six cents

	Hundreds	Tens	Ones	●	Tenths	Hundredths
a)	2	2	6	●	3	4
b)		3	9	●	0	2
c)				●		
d)				●		
e)				●		
f)				●		