

# PLACE VALUE OF DECIMAL NUMBERS

The following chart is useful in determining the place value of decimal numbers.

PLACE VALUE FOR DECIMAL NUMBERS										
Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten-Thousandths	Hundred - Thousandths
10,000	1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10,000}$	$\frac{1}{100,000}$
					.					

The third row is used to show the numerical equivalent for each place value.

\* Remember, the word "and" is used to represent the decimal.\*

## Example:

Write the word name for 317.6409 :

### Step 1:

Fill in the chart working from the **decimal to the right** and then from the **decimal to the left**, both in the number above and in the chart below.

PLACE VALUE FOR DECIMAL NUMBERS										
Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten-Thousandths	Hundred - Thousandths
10,000	1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10,000}$	$\frac{1}{100,000}$
		3	1	7	.	6	4	0	9	

### Step 2:

The word name for 317.6409 is:

Three hundred seventeen **and** six thousand four hundred nine ten-thousandths

\* The decimal number is first spelled out as it would be if it were a whole number, and then the word name for the last digit in the decimal is used to show it is a decimal value.

## PLACE VALUE OF DECIMAL NUMBERS

### Example:

Write the word name for 46,589.52972 :

### Step 1:

Fill in the chart working from the **decimal to the right** and then from the **decimal to the left**, both in the number above and in the chart below.

PLACE VALUE FOR DECIMAL NUMBERS										
Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten-Thousandths	Hundred - Thousandths
10,000	1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10,000}$	$\frac{1}{100,000}$
4	6	5	8	9	.	5	2	9	7	2

### Step 2:

The word name for 46,589.52972 is:

Forty-six thousand, five hundred eighty-nine *and* fifty-two thousand, nine hundred seventy-two hundred-thousandths

\* The decimal number is first spelled out as it would be if it were a whole number, and then the word name for the last digit in the decimal is used to show it is a decimal value.

