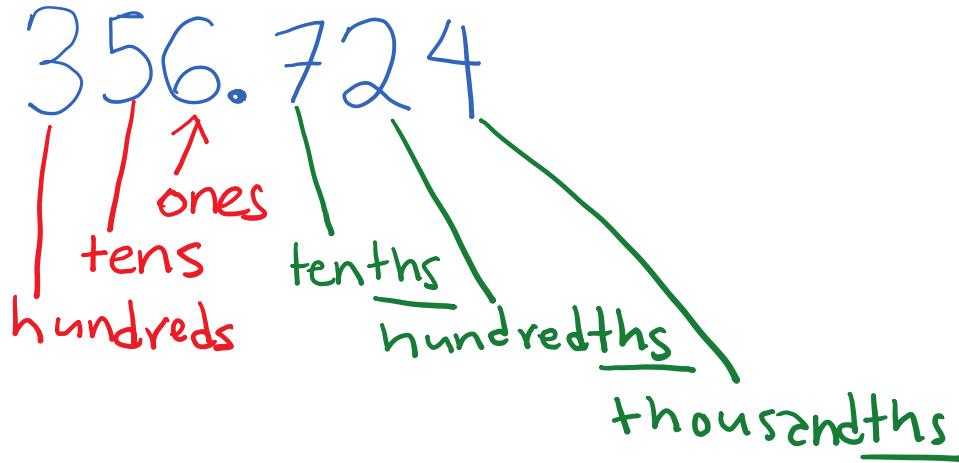# 3.1 Numbers to Thousandths and Beyond

We've already been learning about the names for digits to the left of the decimal, but there are also names for the digits to the right.

356.724

ones
tens
hundreds
tenths
hundredths
thousandths

Practice placing these into the place-value chart below.

A) Divide 27 by 50
Record it in the chart

B) Divide your answer to part a by 50.
Record it in the chart

C) Divide your answer to part b by 25
Record it in the chart.

10 millionths
millionths
100 thousandths
10 Thousandths

	Tens	Ones	Tenths	Hundredths	Thousandths			
	2	7						
A		0	5	4				
B		0	0	1	0	8		
C		0	0	0	0	4	3	2

Patterns in place-value chart

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred-thousandths
1000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10\,000}$	$\frac{1}{100\,000}$

As you move to the left, each position represents ten times are many as the position to the right.

The size of a male fairy flow is shown in the place-value chart below.

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred-thousandths
			0	0	1	3	9	

We read this number as:

One hundred thirty-nine ten thousandths

*You read the decimal as a whole number, then say the name of the position of the last digit.

Standard form:

0.0139

Expanded form:

0 ones + 0 tenths + 1 hundredth + 3 thousandths + 9 ten-thousandths

= 0 .01 + 0.003 + 0.0009

Try this:
Standard from: 3.268 579

We read this number as:

three and two hundred sixty-eight thousandths, five hundred seventy-nine millionths

Expanded form:

3 ones + 2 tenths + 6 hundredths + 8 thousandths +
5 ten-thousandths + 7 hundred-thousandths + 9 millionths

= 3 + 0.2 + 0.06 + 0.008 + 0.0005 + 0.000 07 + 0.000 009

Homework : p. 90 # 1-7 Bonus # 9 and 10