## Grade 7 – NUMERACY – LESSON 3

## **Place Value Decimals**

Decimals can also be written and read in standard form or expanded form.

## Expanded Form

In expanded form the number is broken down into its place value with zeros only then added to each subsequent place value.

When you write the *decimal numbers* you add a zero and a decimal point **before** the decimal digit.

So if you're writing 1.4 in expanded form you would write: 1 + 0.4

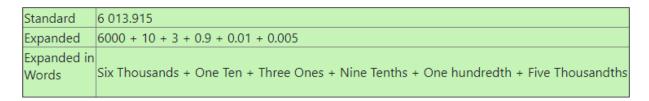
Video: Decimal Numbers to Thousandths – Standard and Expanded Form

Standard	12 746.89
Expanded	10 000 + 2000 + 700 + 40 + 6 + 0.8 + 0.09
Expanded in Words	One ten thousand + Two Thousands + Seven Hundreds + Forty Tens + Six Ones + Eight Tenths + Nine hundredths

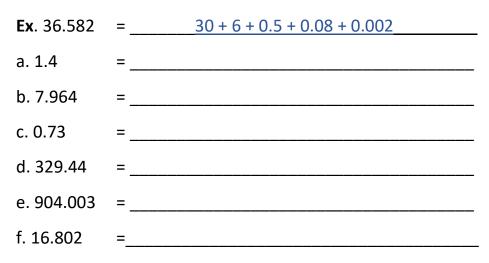
## Expanded Form to Standard Form

Changing numbers from expanded form to standard form can be tricky. In expanded form, numbers with zero as placeholders are not shown. Take a look to see how to convert numbers from expanded form to standard form in this <u>video</u>.

Here is an example again. Notice that there are zero hundreds. The expanded form "skips" from thousands to tens - the zero hundreds is not included.



1. Write the following numbers in expanded form. *Reminder: Start with the biggest number.* 



2. Write the following numbers in standard form. *Reminder: You may have to add a 0 as a place holder in some cases.*