

# EXPANDED NOTATION



## Unit Overview

In this unit, you will study expanded notation and place value.

## Expanded Notation

Expanded notation is writing a number to show the value of each digit. It is shown as a sum of each digit multiplied by its matching place value (units, tens, hundreds, etc.).

$$\underbrace{293}_{\text{Standard Notation}} = \underbrace{2 \times 100 + 9 \times 10 + 3}_{\text{Expanded Notation}}$$

Numbers can be written in word form, standard form and expanded notation. We normally write numbers in standard form. Let's look at the number **1,672** in the three different forms.

**Standard form**  **1,672**

**Word form**  **one thousand six hundred and seventy two.**

**Expanded notation**   **$1,000 + 600 + 70 + 2$**

Below is another example of numbers written in expanded notation.

Expanded notation...

452	$400 + 50 + 2$
1,706	$1,000 + 700 + 0 + 6$
9,011	$9,000 + 0 + 10 + 1$

The chart below is an example of the number 627,498 in its place value. You may refer to this place value chart below when doing this unit.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	2	7	4	9	8
600,000	20,000	7,000	400	90	8

Click on the link to watch the video "[Finding a number's place value](#)".



Click on the link to watch the video "[Creating the largest possible number](#)".

