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# Math Mammoth Place Value 3

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# Introduction

In *Math Mammoth Place Value 3*, the focus is in dealing with 4-digit numbers (thousands) in various ways.

First we study place value. The emphasis is on trying to get familiar with numbers that have thousands and 'visualize' them on a number line. Then are studied addition and subtraction using these numbers.

The book first contains a lot of mental math problems with 4-digit numbers. In studying mental addition and subtraction the similarities to adding smaller numbers are stressed, which helps the students to understand how to add/subtract these bigger numbers. Mental math also helps to build number sense.

Adding and subtracting in columns is its own lesson. These processes should be relatively easy now assuming the student has grasped them well earlier, when studying 2-and 3-digit numbers.

Order of operations is studied for addition and subtraction only, and several interesting connections with algebraic thinking are made in this lesson.

Then there are several lessons about rounding and estimating, which are very important skills needed in everyday life.

*I wish you success with math teaching!*

*Maria Miller, the author*

## Helpful Resources on the Internet

*Use these free online resources to supplement the "bookwork" as you see fit.  
You can access an up-to-date online version of this list at  
[www.mathmammoth.com/weblinks/place\\_value\\_3.htm](http://www.mathmammoth.com/weblinks/place_value_3.htm)*

### **Base 10 Blocks from National Library of Virtual Manipulatives**

Place enough thousand cubes, hundred-flats, ten-sticks, and one-blocks to the work area to show given numbers. Choose "Columns = 4" to restrict the program to four-digit numbers.

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_152\\_g\\_1\\_t\\_1.html?from=category\\_g\\_1\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_152_g_1_t_1.html?from=category_g_1_t_1.html)

### **Cookie Dough**

Practice naming big numbers.

<http://www.funbrain.com/numwords/index.html>

### **Arithmetic Workshop Place Values Tool**

Drag models of ones, tens, hundreds, or thousands to the workarea, group them, break them up, or practice any of the four operations using the same visual models.

<http://www.iknowthat.com/com/L3?Area=EarlyMathWorkbench>

### **Can you say really big numbers?**

Enter a really big number, try say it out loud, and see it written.

<http://www.mathcats.com/explore/reallybignumbers.html>