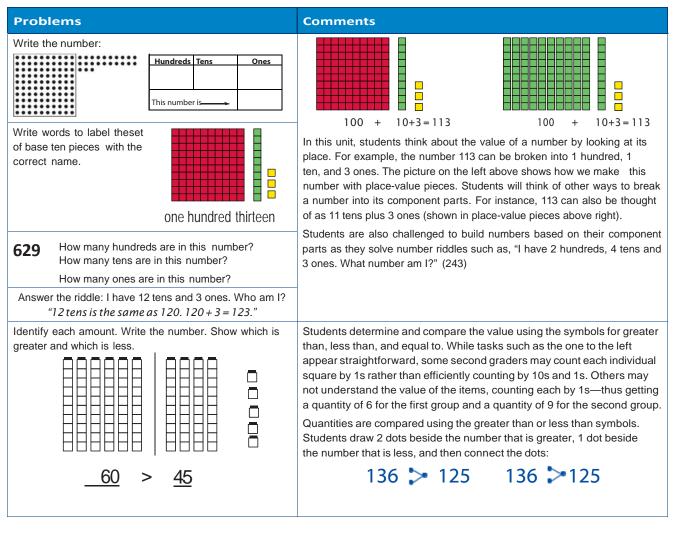
Fairfield Elementary Mathematics Grade 2

## Unit 2: Place Value To One Thousand

In this unit your child will:

- Identify the place and value of a 3-digit number
- Read, write, model, and compare 2- and 3-digit numbers
- Represent numbers in a variety of ways
- Determine equivalence
- Investigate the 100 chart

Your child will learn and practice these skills by solving problems like those shown below. Keep this sheet for reference when you're helping with homework.





For more information visit: <u>http://fairfieldpublicschoolsk5math.wikispaces.com/</u>and www.mathlearningcenter.org

## **Frequently Asked questions About Unit 2**

## **Q:** I understand why students should know the hundreds, tens, and ones for adding and subtracting, but why do they need to know different ways to break numbers apart?

**A:** One of the key strategies developed in this unit is breaking numbers into their component parts (also known as decomposing numbers). The visual models shown in the example above help your child understand the relative size of each digit compared with other digits. For example, when comparing 53 with 35, they should understand that 53 is the larger number because it is made of 5 tens, while 35 has only 3 tens.

The ability to see and understand numbers as groups of ten and ones is also essential for learning how to add and subtract. For example, when a student understands that 5 ones plus 8 ones is the same as 1 ten and 3 ones, they can choose an easy strategy to solve 35 + 28. First they add the 3 tens and 2 tens to get 5 tens, or 50, then add 1 ten and 3 ones to arrive at the sum of 63.

## **Q:** How is this unit teaching my child to add 2-digit numbers?

**A:** During second grade students will learn different ways to think about adding and subtracting numbers flexibly and efficiently. When children first begin adding 2-digit numbers they will break or split numbers into tens and ones and add the parts together. For example, a student might add 35 and 22 by adding the tens, adding the ones, and then combining the results (30 + 20 = 50, 5 + 2 = 7, and 50 + 7 = 57). Other times students treat numbers as lengths on a number line, making jumps of 10s and 1s to get from one number to another.

The measuring activities in this unit help students think about combining two quantities on a measuring tape. A measuring tape is like a number line. If they're adding 35 and 22, they may start at 35, then jump 2 tens on the number line (35 to 45, 45 to 55) and then jump 2 ones (55 to 56, 57). The number line encourages students to use landmark numbers like 10, 50, and 100 and count by 10s and 100s, which is useful for mental computation. Your student will explore fluency with adding and subtracting in greater detail in Unit 3.