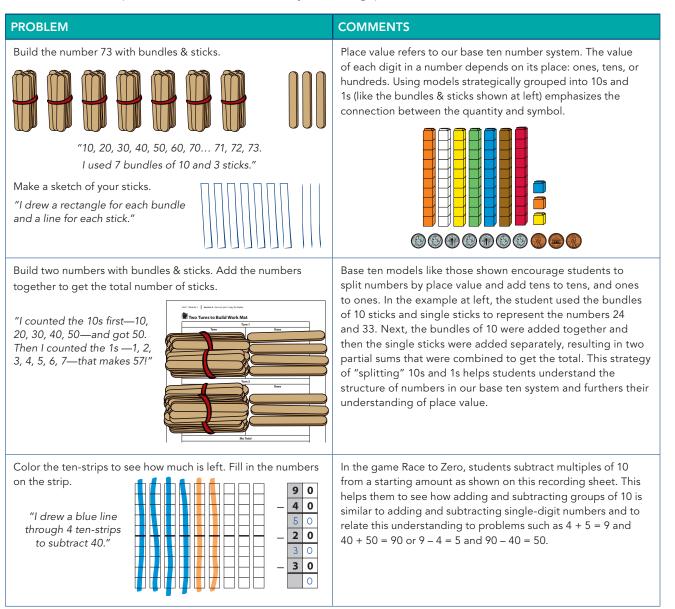
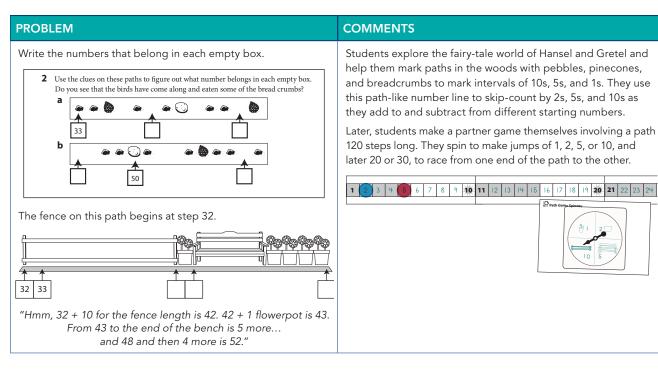
Bridges in Mathematics Grade 1 Unit 7: One Hundred & Beyond In this unit your child will: Understand place value within the range of 0–120 Represent numbers using groups of 1s, 10s, and 100

- Use models, sketches, and numbers to add and subtract up to 120
- Count forward and backward by 1s, 2s, 5s, and 10s on a number line

Your child will practice these skills by solving problems like those shown below.





FREQUENTLY ASKED QUESTIONS ABOUT UNIT 7

Q: How does building numbers with different materials help my child understand place value?

A: Understanding place value and its base ten structure is essential to a student's development of number sense. When students build 2-digit numbers, they quickly learn that counting items one by one is time consuming. In order to build numbers quickly and efficiently, they must think about the value of each digit. Counting 7 bundles of 10 is much faster than counting 70 single sticks. Students understand that 73 is larger than 37 because it is made of 7 tens, while 37 has only 3 tens. Understanding the structure allows them to calculate 2-digit numbers. When they first begin adding 2-digit numbers, they will break or split numbers into 10s and 1s and add the parts together. For example, a student might add 28 and 33 by adding the 10s, adding the 1s, and then combining the results (20 + 30 = 50, 8 + 3 = 11, and 50 + 11 = 61).

Q: The Hansel and Gretel number line path looks like a lot of fun, but I'm not sure of its purpose.

A: The number line activities in this unit build on the work done in Unit 4. Students skip-count forward and backward along the number line path as they learn to recognize the patterns that exist in our number system. This practice helps them notice each number's place in the counting sequence and the distance between numbers. They come to think of adding and subtracting as a process of moving from one number to another, and to do so quickly and efficiently.

The ability to add or subtract 10 to any number is a foundational skill for many computational strategies involving larger numbers. Once students understand the counting pattern, adding and subtracting 10 is fairly easy. Students recognize that the 1s stay constant, while the 10s numbers increase sequentially (as in 27, 37, 47, 57...). For example, in adding 23 and 34, students might start at 23, then jump 3 tens on the number line (23 to 33, 33 to 43, 43 to 53) and then jump 4 ones (54, 55, 56, 57). This kind of flexible thinking develops strong mental math.

The number line path lessons establish the thinking process that will be used to make number comparisons in Unit 8. This strategy is further developed in second grade.

