## Bridges in Mathematics Grade 1 Unit 7

# **One Hundred & Beyond**

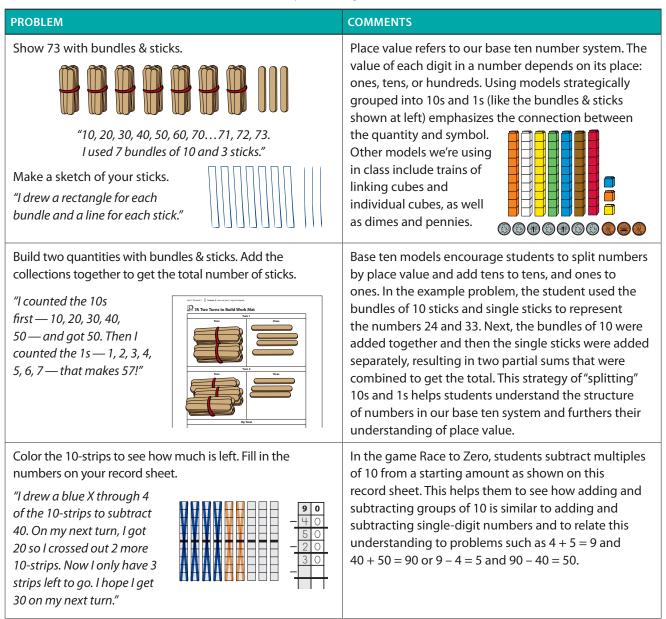
In this unit, your student will:

- Understand place value within 120
- Represent quantities to 120 using groups of 1s, 10s, and 100
- Use models, sketches, and numbers to add and subtract within 100

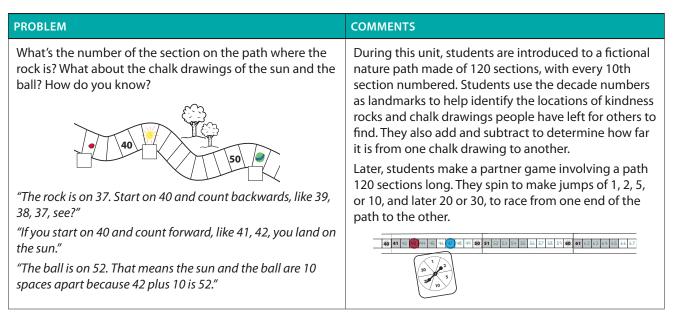


• Count forward and backward by 1s, 2s, 5s, and 10s on a number path

Your student will practice these skills by solving problems such as these:



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### Frequently Asked Questions About Unit 7

#### Q: The nature path looks like fun, but I'm not sure of its purpose.

A: The number path activities in this unit build on the work done in Unit 4. Students count forward and backward by 1s and by 10s along the 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 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 makes sense because of the predictable pattern based on place value. 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 path (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 and will be further developed in second grade.

#### Q: How can I support my student's learning?

A: Invite your student to count anywhere and everywhere. How many steps from one end of the block to the other? How many cans or boxes in the display at the grocery store? How many crayons in the basket? The possibilities are endless, and if some of them involve objects that can be moved around, challenge your student to find ways to organize them so they're easier to count.

To further support your student in learning mathematics, you can:

- Visit <u>mathathome.mathlearningcenter.org</u> and work through some or all of the activities in Grade 1: Set 7 together. These activities complement the learning that takes place in the classroom during Unit 7 and provide fun ways to engage in mathematical thinking. This set also includes digital versions of games your student has learned at school, such as Two Turns to Build and Race to Zero
- Visit <u>apps.mathlearningcenter.org</u> and invite your student to explore the Money Pieces, Number Chart, and Number Line apps. Throughout Unit 7, students use these tools in their physical forms in the classroom.
- Read books with your student that offer opportunities to think about numbers from 1 to infinity. Some book suggestions for this unit include:
  - » How Many Jelly Beans? by Andrea Menotti, illustrated by Yancey Labat
  - » Counting on Katherine: How Katherine Johnson Saved Apollo 13 by Helaine Becker, illustrated by Dow Phumiruk
  - » Sheep Won't Sleep by Judy Cox, illustrated by Nina Cuneo
  - » Billions of Bricks: A Counting Book About Building, by Kurt Cyrus
  - » Infinity and Me written by Kate Hosford, illustrations by Gabi Swiatkowska

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