



NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS

FOCAL POINTS—

Grades 1 and 2



A Quest for Coherence

This is the third in a series of articles exploring the use of the 2006 National Council of Teachers of Mathematics (NCTM) publication, Curriculum Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence. The series introduction from NCTM President Skip Fennell, explaining what the Curriculum Focal Points are and why NCTM developed them, appeared in the December 2007/January 2008 issue of Teaching Children Mathematics (page 315). In subsequent TCM articles, the authors of the various grade bands discuss focal points for one or two grade levels. Because one principle of Curriculum Focal Points is that of cohesive curriculum, in which ideas develop across the grades, we encourage teachers of all grade levels to read the full series.

A first-grade teacher listened to two students “sharing” some crackers. “Come on!” said Josh. “You already had seven, and now you took five more!” The teacher asked both of them how many that would total. Josh answered, “Easy. Seven, eight, nine, ten, eleven, twelve.” Marissa had a different way: “Five and five is ten; so take five, put it with the five, and two left. Twelve.”

Curriculum Focal Points (NCTM 2006) defines the mathematics that every child should know and be able to do for each specific age or grade level addressed in the document. In this article, we discuss the Focal Points for first and second grade.

First-Grade Mathematics

In the domain of Number and Operations, children develop strategies for adding and subtracting whole numbers based on their experience working with small numbers in prekindergarten and kindergarten. For example, in those grades, children should have learned to accurately and efficiently count sets of objects as well as produce sets of a given number. Are they finished with counting then? No! First graders still need to develop a variety of counting skills and concepts.

In the opening vignette, Josh showed the ability to “count on.” For many children, this skill begins with the ability to verbally count forward, and then backward, from any number. If this seems an easy skill to you, try to start at *J* and say the alphabet backward. It is not as easy as you thought it would be, is it? And we have known the alphabet for much longer than the few years that children have known numbers.

After learning to count on, children then learn to count to a certain number, such as “two more than seven.” Again, test yourself *without* using numbers at all: What is *D* more than *J* in the alphabet?

Finally, children need to learn to use these abilities in quantitative situations. For example, if you count five marbles into a bag, then drop more in, can your students quickly tell you how many are in the bag? If not, start by repeatedly putting only one more in each time. Then ask them, “How many now?” Next, increase the number you put in the bag to two at a time, and so forth. Children can learn to count backward in much the same way. Perhaps surprisingly, counting on is often a better strategy for most children, even for subtraction.

By Julie Sarama and Douglas H. Clements

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