## Bridges in Mathematics

 Grade 4 Unit 1
## Multiplicative Thinking

In this unit your child will:

- Fluently multiply and divide within 100
- Apply properties of operations as strategies to multiply and divide

- Use multiplication and division within 100 to solve story problems in situations involving equal groups, arrays, and measurement quantities


## - Find the area of a rectangle

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. Use the free Math Vocabulary Cards app for additional support: mathlearningcenter.org/apps


Alexa has 6 seashells. Her sister Jasmine has 3 times as many seashells as Alexa, and her brother Tim has a third as many seashells as Alexa. How many seashells does Jasmine have? How many seashells does Tim have?


## COMMENTS

Many story problems invite students to think about multiplication as equal groups. For example, if three siblings each ate 2 cookies, they ate 6 cookies in all. Students also use multiplication and division to solve problems involving comparisons, for example, "3 times as many" or "a third as many." We want students to appreciate that a variety of situations (equal groups, area, equal jumps on a number line, comparisons, rates) call for multiplication and division.

## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 1

## Q: Why do some of these activities look like what my child did in third grade?

A: This unit reviews mathematical concepts while introducing and establishing routines that will be used in fourth grade. Teachers assess students' skill level and plan future lessons based on this review. Students also deepen their experiences with multiplication and division by investigating multiplicative comparisons, writing expressions to represent multiplication situations, and solving contextual problems. Another element that is new to fourth grade is an investigation of factors, multiples, and prime and composite numbers.

## Q: How can I help my child and make homework a successful experience?

A: Homework assignments are sent home two or three times a week during the school year. Teachers may also send home Daily Practice pages for additional work with concepts and skills. Although your child is doing similar activities in class, she may need your help at home. Take time to ask her to explain the assignment to you. If she can describe the task clearly and confidently, she can probably complete the assignment independently. Your child has used several models and strategies to solve problems. Encourage her to use ways that make sense to her. Review the completed assignment, and ask your child to explain her thinking about some of the problems.

