## Bridges in Mathematics Grade 1

## Unit 2: Developing Strategies with Dice \& Dominoes

In this unit your child will:

- Instantly recognize dots on dominoes or dice
- Practice addition and subtraction strategies, like counting on, doubles, and make 10 within 12
- Use dominoes and picture cards to write a fact family of equations
- Solve and write story problems
- Count by 5 s and 10 s

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



## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 2

## Q: My child writes some numbers backward. Should I be concerned?

A: Some first graders write their numbers backward. Children at this age are developing their motor skills and hand-eye coordination. Some are still learning to form their numbers correctly. Reversing numbers worries some parents because they've heard it can be a sign of a learning disability, but that's not always the case. If your child reverses a number, point it out and ask him to model it after a number on the page or a number line. Over time, children will learn to practice correct formation and position.

Q: Fact families seem confusing. Why not just teach students to add and subtract equations?
A: Fact families help young children understand part-part-whole relationships and how addition and subtraction are related. Models, such as this domino, clearly show the whole quantity (10) along with the parts $(4,6)$. Solving addition and subtraction combinations is much easier once children know the relationships of the fact family members.


Understanding fact families also helps students solve problems such as this one: Lee has 4 shells. He finds some more. Now he has 10 . How many shells did he find? This problem is written as the equation: $6+$ $\qquad$ $=10$. Children who understand this relationship can think, "What goes with 6 to make 10?" and recognize 4 as the missing number.

Q: Why is there an emphasis on counting by 5 s and 10 s?
A: We want students to become efficient at counting quantities larger than 10 and to move beyond counting one by one when solving problems. This unit includes story problems and visual models that encourage students to begin counting equal groups by 5 s and by 10 s. Initially, students are given actual objects to count, and then they are given models that represent the objects in groups of 10 s and 1 s . After a while, students use visual images of the quantities to mentally count by 10 s and 1 s to efficiently add and subtract numbers up to 100 .

