



# MATHEMATICS GRADE 3

By the end of third grade, students will have had an opportunity to engage with the core concepts listed below.

- Multiply and divide within 100, and add and subtract numbers within 1,000 quickly and accurately, using memory and/or strategies.
- Solve one- to two-step word problems involving addition, subtraction, multiplication, and division.
- Begin to multiply numbers with more than one digit and with multiples of 10 (like multiplying  $9 \times 80$ ).
- Understand fractions as part of a whole.
  - For example, recognize that  $\frac{3}{1}$  and 3 are the same value.
- Reason about one- and two-dimensional shapes, including classify quadrilaterals.
  - For example, all squares are rectangles, but not all rectangles are squares.
- Solve problems about things like time, how much liquid is in a container, and the weight of different objects.
- Understand concepts of area and perimeter, and relate area to multiplication.
  - For example, why is the number of square feet for a 9-foot by 7-foot room given by the product  $9 \times 7$ ?



## QUESTIONS TO ASK YOUR STUDENT

- "Can you measure half a cup of milk for the recipe we're making?"
- "How can we lay out your game cards so we have the same number in each row?"
- "What time is it? What time will it be in an hour and a half? How much time has passed since we left home?"
- "Imagine you have a rectangular garden that is 5 feet long and 3 feet wide. If you want to put a fence around the entire garden, how many feet of fencing will you need?"



## WAYS TO CHALLENGE THEIR THINKING

- Create multiplication and division problems with two-digit calculations and multiple steps.
- Explore fractions in real-world situations and relate them to whole numbers.
- Provide challenges that require understanding geometry concepts, calculating areas and perimeters, and applying these concepts to real-world situations.