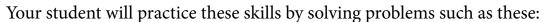
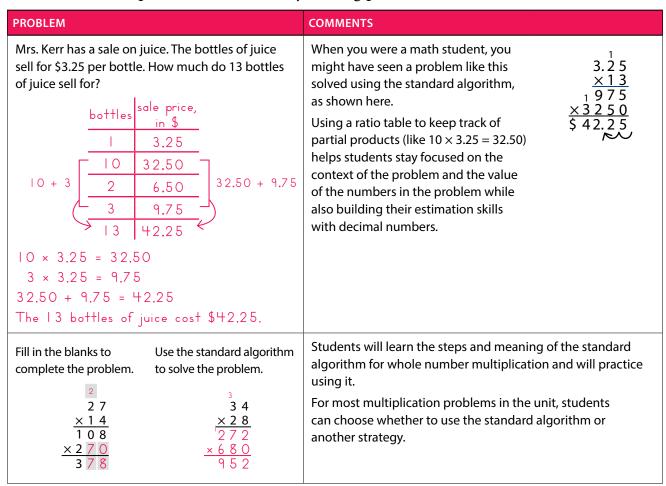
## **Bridges in Mathematics Grade 5 Unit 4**

# Multiplying & Dividing Whole Numbers & Decimals

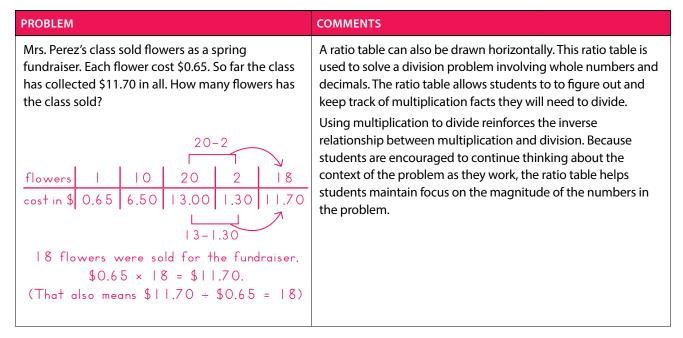
In this unit, your student will:

- Use a variety of strategies for multiplying and dividing multidigit whole numbers
- Practice using the standard algorithm to multiply multidigit whole numbers
- Begin multiplying and dividing with decimal numbers





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For additional support, you can use the Math Vocabulary Cards app at apps.mathlearningcenter.org.

#### **Frequently Asked Questions About Unit 4**

### Q: This approach to multiplication and division is new to me. Why have kids use so many different strategies when they can use the algorithms instead?

A: An algorithm is a set of steps used to perform a particular calculation. Algorithms are important because when they are used accurately, they are reliable and universally applicable. Difficulties arise when students attempt to use an algorithm for multiplying or dividing without having first become proficient with foundational facts, when they don't understand why the algorithm works, when they forget the steps, or when they can perform the steps but have not estimated to know whether their final answer is reasonable. This unit employs the area model and other strategies to help students build a strong understanding of how different strategies, including algorithms, work. The goal is to help students develop many effective computational strategies, including the standard algorithms.

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

**A:** To 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 5: Set 4 together. These activities complement the learning that takes place in the classroom during Unit 4 and provide fun ways to engage children in mathematical thinking. This set also includes digital versions of games that your student has learned at school, such as Parentheses Power and Least Remainder Wins.
- If you use other strategies or algorithms to multiply numbers, discuss these with your student and compare them to the standard U.S. algorithm and the other strategies and models your student uses in school.
- Visit <u>apps.mathlearningcenter.org</u> and invite your student to explore the Partial Product Finder app. This can
  help you and your student see how partial products can be used to solve multiplication or division problems
  involving whole numbers.
- Find or create new multiplication and division problems for your student to solve. Look for opportunities to
  invite your student to use the news or books you read together as mathematical context or to help you budget
  and shop each month.