



SCOTT FORESMAN Investigations

IN NUMBER, DATA, AND SPACE®

As a way to become familiar with this unit:

- Read the selections
- Try/think through the Activities
- Review the Assessment opportunities
- Do the end-of-unit assessment tasks

Thousands of Miles, Thousands of Seats

This unit is the 3rd of 9 units in fifth grade. It is part of the K-5 number and operations strand, and is the addition, subtraction, and number system unit at this grade. This unit builds on the work of the previous units in this strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 10.

Investigation 1: Using Place Values

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 23)
- Investigation 1 Planner (p. 24)

The following activities and information support the key math ideas:

- Activity: Introducing the 10,000 Chart (p. 28)
- Activity: Introducing How Many Steps to 10,000 (p. 37)
- Activity: Related Problems (p. 45)
- Discussion: The Largest Number (p. 52)
- Teacher Note: Representing Subtraction on the Number Line (p. 118)

Investigation 2: Studying Subtraction

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 55)
- Investigation 2 Planner (p. 56)

The following activities and information support the key math ideas:

- Discussion: Subtraction Strategies (p. 60)
- Teacher Note: Describing, Comparing, and Classifying Subtraction Strategies (p. 123)

Preparation

- Materials to Gather and Prepare (pp. 25, 57, 87)
- Review the logistics of the 10,000 Chart (p. 28)

Assessment

- Assessment in This Unit (p. 14)
- Assessment Activities (pp. 33, 103, 109)
- Assessment Activity (p. 83) and Teacher Note (p. 132)
- Assessment Activity (p. 91) and Teacher Note (p. 130)
- End-of-Unit Assessment Activities (p. 111) and Teacher Note (p. 137)

Practice & Review

- Ten-Minute Math (p. 20)
- Practice and Review (p. 21)

- Activities: Introducing Starter Problems (p. 70) and Starter Problems (p. 71)
- Activity: Examining the U.S. Algorithm (p. 76)
- Dialogue Box: Working with the U.S. Algorithm (p. 147)
- Discussion: Using Strategies (p. 82)

Investigation 3: Adding and Subtracting Large Numbers

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 85)
- Investigation 3 Planner (p. 86)

The following activities and information support the key math ideas:

- Activity: Close to 7,500 (p. 89)
- Discussion: Solving Problems with Large Numbers (p. 98)
- Math Workshop: Adding and Subtracting Large Numbers (p. 100)

Teacher Notes and **Dialogue Boxes** are important sources of information about mathematics content and about students' thinking about mathematical ideas. Each time you teach this unit, you can read more of this information.