



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

Fraction Cards and Decimal Squares

This unit is the 6th of 9 units in 4th grade. It builds on the work of the previous units in the K-5 fractions and decimals strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 10.

Investigation 1: Parts of Rectangles

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 19)
- Investigation 1 Planner (pp. 20 & 22)

The following activities support the key math ideas:

- Activity: Finding Thirds and Sixths (p. 33)
- Discussion: How Are Thirds and Sixths Related? (p. 34)
- Activity: Fractions of 24 (p. 38)
- Discussion: Halves of Different Wholes (p. 42)
- Activity: Introduction to Adding Fractions (p. 53) and Discussion: More or Less Than 1? (p. 59)

Investigation 2: Ordering Fractions

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 63)
- Investigation 2 Planner (pp. 64 & 66)

The following activities support the key math ideas:

- Discussion: Fractions Greater than 1 (p. 69) and Activity: Making Fraction Cards (p. 71)
- Teacher Note: Visualizing Fraction Equivalencies (p. 141)
- Activity: Comparing Fractions to Landmarks (p. 84) and Discussion: Comparing $\frac{3}{8}$ and $\frac{2}{4}$ (p. 89)
- Teacher Note: Strategies for Comparing Fractions (p. 151)

Preparation

- Materials to Gather and Prepare (pp. 21, 23, 65, 67, 101, 103)
- Plan for how each group of 3-4 students will make a set of Fraction Cards from 10 pieces of colored card stock (Session 2.1 p. 65)

Assessment

- Assessment in This Unit (p. 14)
- Assessment Activity (p. 50) and Teacher Note (p. 143)
- Assessment Activity (p. 95) and Teacher Note (p. 153)
- End-of-Unit Assessment Activities (p. 136) and Teacher Note (p. 159)

Practice & Review

- Ten Minute Math (p. 16)
- Practice and Review (p. 17)

Investigation 3: Working with Decimals

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 99)
- Investigation 3 Planner (pp. 100 & 102)

The following activities support the key math ideas:

- Activity: Decimals on the 10 x 10 Square (p. 108)
- Activity: Comparing 0.25 and 0.3 (p. 112)
- Teacher Note: Extending Place Value to Tenths and Hundredths (p. 157)
- Activities: Introducing Parts of a Mile (p. 121) and Running Distances (p. 123)

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.