



Chapter 8 Building Addition and Subtraction Fluency

In Chapter 8, children continue to develop fluency with addition and subtraction through exploring the various meanings of addition and subtraction of whole numbers and the relationship between the two operations. Children encounter these ideas in a variety of contexts, including exploring different computational strategies, solving Cross Number Puzzles, and creating and solving word problems.

About the Math

- Using Cuisenaire Rods helps to build early algebra skills because it encourages general thinking about how addition and subtraction work.
- Working with fact families helps children see connections and relationships between numbers in a concrete way.
- Addition and subtraction problems appear in various forms. Children need to recognize that all of these forms express the same idea: that a number can be separated into parts.
- Fact families offer review of basic addition and subtraction facts as children create a system to cluster related addition and subtraction facts. Such a system can help children learn facts more effectively and build new facts from old ones.

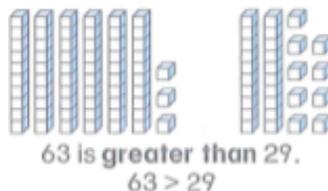
Vocabulary

fact family

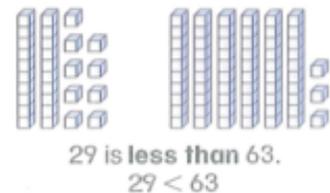
6, 7, and 13 are the numbers in this fact family.

$$\begin{array}{l} 6 + 7 = 13 \quad 7 + 6 = 13 \\ 13 - 6 = 7 \quad 13 - 7 = 6 \end{array}$$

greater than (>)



less than (<)

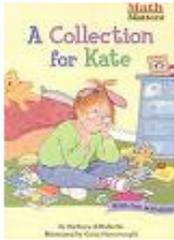


Literature Connection

A Collection for Kate

By Barbara deRubertis

Math Concept: writing fact families



In the Car Activities

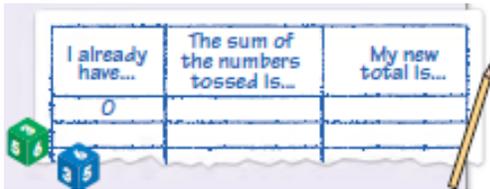
- ★ Skip count by 10's, 50's, and 100's to 2000
- ★ Say a 2 or 3 digit number and ask the child to add or subtract 10.

Family Fun

Race to 100!

Play this game with your child. Your child will play this game in Lesson 6.

- Prepare two game boards like this. You also need two number cubes.

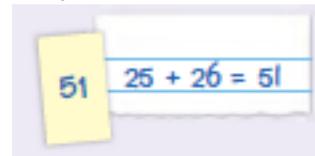


- Players alternate turns. For each turn, toss the number cubes and add the two numbers. Record the sum in the middle column. Add the first two columns together and record that sum in the third column. Copy the “new total” into the first column of the row for the next turn.
- The winner is the first player to reach 100 in the “new total” column.

What Makes a Number

Work with your child to find addition problems for a given number.

- On index cards or slips of paper, write a variety of two-digit numbers, one per card.
- Place the cards face down in a pile, and have your child choose one card. Together, name two numbers that when added together make the number on the card. Write an addition sentence for your numbers.



- Repeat, reusing cards if you want. If cards are reused, challenge your child to come up with a different addition sentence for the number.