



### Chapter 7 Doubling, Halving, and Fractions

In Chapter 7, children work with concepts related to fractions and doubling. Children also use these concepts in more concrete applications such as determining if a number is even or odd, working with time and perimeter and sharing items among a group.

#### About the Math

- Children have intuitive ideas about fractions, but must learn the convention for fraction notation.
- Connecting the notation to familiar situations like sharing a pizza helps make the notation meaningful. The bottom number (denominator) tells how many slices there are in a whole pizza and the top number (numerator) tells how many slices a person gets).
- Children will realize that when you know a whole and want to find a half, you split the known quantity into two equal parts.
- If children know half and want to find a whole, they imagine adding two halves together.
- When doubling perimeter, children are doubling both the length and height of a figure. The area of the figure is doubled twice, in other words, it is four times the size.

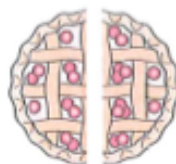
#### Vocabulary

double

Both addends are the same in a doubles fact.

$$4 + 4 = 8$$

halves



fair share



## Literature Connection

### Fraction Action

By Loreen Leedy

Math Concept: identifying fractions of wholes and sets



## In the Car Activities

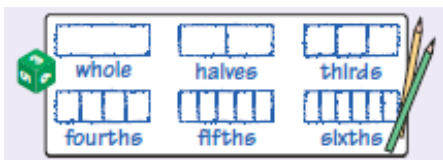
- ★ Say a two-digit number and ask your child to name the nearest ten.
- ★ Say a number and have your child double or halve it.

## Family Fun

### Share the Granola Bar!

Work with your child to play this game. Your child will play a similar game in Lesson 7.

- Prepare a game board like this. You also need two different-color pencils and a number cube.



- Take turns with your child. For a turn, toss the number cube. This is the number of people who share the granola bar. Find the bar divided into that many equal pieces, write the fraction in one piece and color the piece. This shows that you ate it. For example, if you roll a 6, write  $1/6$  in one piece of the bar for sixths and then color it.
- If there are no uncolored pieces left for a fraction, you lose a turn.

### Double Your Money

Work with your child to practice doubling a money amount.

- Write a money amount less than 50 cents on a slip of paper. Together, show it with coins.
- Ask your child to double that amount of money using any method. Your child can figure out the amount on a scrap of paper and then show it with coins or figure it out just using the coins.
- As a challenge, you might ask your child to find half of the original amount.

