

### Exploring Addition and Subtraction Add in Any Order

Put some counters on each plate.



Chapter 4

How many counters are on the left plate?

How many counters are on the right plate? \_\_\_\_\_



How many counters are there in all? \_\_\_\_\_

Explain how you found the total.

### **STEP 3** Adding in Another Order

# Switch the plates so that the left one is on the right.

How many counters are there in all now? \_\_\_\_\_

How does this compare to the answer in Step 2?

10 counters2 paper plates

You need



ine right.

now does this compare to the driswer in Step

Why do you think the totals are the same?



### **School-Home Connection**

#### Dear Family,

Today we started Chapter 4 of *Think Math!* In this chapter, I will use stories and puzzles to learn about addition and subtraction. There are NOTES on the Lesson Activity Book pages to explain what I am learning every day.

Here are some activities for us to do together at home. These activities will help me learn to add and subtract.

Love,

### **Family Fun**

### **Missing Number**

### Work with your child to identify a missing number of items.

- Two players need exactly 10 paper clips or other small objects for this game. Set the 10 objects on a table.
- One player hides some of the 10 objects in his or her hand and challenges the other player to tell how many objects are hidden.
- By counting the number of objects left, the player determines the number of hidden objects.
- If the number is correct, that player scores I point.
- Players take turns. The first player to get 10 points wins!

### Tic-Tac-Add

#### Work with your child to add two numbers.

- Draw a tic-tac-toe board with the numbers 1, 2, 3, and 4 in the four squares of the top left corner.
- Assign your child to be X and to go first. Players take turns and follow the rules of tic-tac-toe with one modification: if a player wants to mark a square without a number, he or she must add the two numbers in the row, column, or diagonal and write the sum on the game board first before marking an X or O.

2

4

I

Play continues until one player makes tic-tac-toe or the game ends in a tie. Players can play again by marking the upper left squares of a new board with the numbers 2, 3, 4, 5; 1, 1, 2, 4; or 2, 2, 4, 5 or any other combination of four numbers less than 5.

Chapter 4

### Introducing the Cross Number Puzzle

#### What numbers are missing?



**NOTE:** Your child is learning to sort shapes, count them, and record the numbers in a table. This prepares children for exploring addition and subtraction in later lessons.

**4.** What numbers are missing?



5. Make your own.





Date .

Chapter 4

# **Using Cross Number Puzzles to Add**

NCTM Standards 1, 2, 3, 6, 8, 9, 10

### Complete each puzzle.





3.
Blue Green
LARGE

O A
O

small
A



**NOTE:** Your child is learning to count objects in a grid and to record the numbers in a Cross Number Puzzle. In these puzzles, sums of objects in rows and columns are recorded in the bottom row and in the right column.

21 21 21 LXIII sixty-three 63

4. What are the missing numbers?



5. What are the missing letters and sums?

64 sixty-four LXIV





32

32

## **Exploring Missing Addends**

NCTM Standards 1, 2, 6, 7, 8, 9, 10

#### Fill in the missing pictures and numbers.

Use the numbers in the puzzles to decide how many to draw.

LXV sixty-five 65

Ι.

Chapter 4

Lesson







**NOTE:** Your child is using reasoning skills to complete Cross Number Puzzles. The numbers in the puzzle match the number of circles in the 2-by-2 grid. Ask your child to explain how to solve each puzzle.



#### What are the missing numbers?

#### 4.



5.





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Date -

Chapter 4

# Practice with Cross Number Puzzles

#### What numbers are missing?

١.



2.



3.



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**NOTE:** Completing the Cross Number Puzzles on these pages helps your child develop problem solving skills.

70 3 LXVII sixty-seven 67

What numbers are missing?



## 

 3

 4

 5

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I. Which are sums of 10?



**NOTE:** Your child is learning to quickly recognize pairs of numbers with a sum of 10. On page 70, children use Cross Number Puzzles to see that numbers can be added in any order and still have the same sum.



70

Т

Complete each puzzle. Use the puzzle to complete the number sentence.





70 seventy LXX

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#### Addition Stories NCTM Standards 1, 2, 6, 7, 8, 9, 10



I. 5 children played tag.2 more joined the game.How many children are playing tag now?

\_\_\_\_\_ children



2. Some children are in the classroom.
6 are boys.
3 are girls.
How many children are in the classroom?

\_\_\_\_\_ children



**NOTE:** Your child is learning to solve addition story problems. You may wish to pose an addition problem about objects or people in your house and ask your child to solve it.

I LXXI seventy-one 7

70



Nrite an addition story about the kittens.

3.

**4.** Solve your story problem. Use words, numbers, or pictures to show how you solved it.

#### Date -

Chapter 4

# Subtraction Stories



#### 📏 Solve each problem.

I. 7 children played tag.2 went home.How many children are playing now?

\_\_\_\_\_ children



2. 9 children are in the classroom.6 are boys.How many are girls?

\_\_\_\_\_ girls

**NOTE:** Your child is learning to solve subtraction story problems. You may wish to ask your child to compare two groups of objects in your house. For example, how many more apples do we have than bananas?

Constant Constants
<ul> <li>Write a subtraction story about the puppies.</li> <li>3</li> </ul>

**4.** Solve your story problem. Use words, numbers, or pictures to show how you solved it.





Problem Solving Strategy Guess and Check Understand Plan Solve Check

 There are 6 birds in a tree. Some are robins and the rest are sparrows. There are 2 more sparrows than robins. How many robins are in the tree?

\_\_\_\_\_ robins

2. Paul has 7 coins in his pocket. He only has nickels and pennies. The coins are worth 15¢. How many of each type of coin does Paul have?

\_\_\_\_\_ nickels

\_\_\_\_\_ pennies

Reyna sorts 8 triangles by size.
 She has the same number of large triangles as small triangles.
 How many of each size does Reyna have?

\_\_\_\_\_ small triangles

\_\_\_\_\_ large triangles

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**NOTE:** Your child is exploring different ways to solve problems. Sometimes guessing and checking is an efficient way to solve a problem.



### **Problem Solving Test Prep**

I. Justin made a pattern with 2. Deandre had I nickel and 3 pennies. figures. Then he earned 10¢. How much money does he have now? Which figure is missing? (A) 10¢  $(A) \land$ (B) 15¢ (B)(C) 18¢  $(C) \bigcirc$ (D) 23¢ (D)Show What You Know 3. Fiong has some nickels and **4.** Kelly, Josh, and May are in line. pennies. She has 11¢ in all. Kelly is in front of Josh. How many of each type of coin May is right behind Kelly. could she have? Who is first? nickels is first. Explain how you know your \_\_\_\_\_ pennies

Explain how you know your answer makes sense.

answer is correct.



I. What figures are missing? Lesson 1 What numbers are missing?





2. What numbers are missing? Lesson 2



3. What numbers are missing? Lesson 3



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7 II LXXVII seventy-seven 77

#### What numbers are missing? Lessons 4 and 5



#### Solve each problem. Lessons 6 and 7

- Marcy picked 4 tulips.
   Her mother gave her 5 roses.
   How many flowers does Marcy have now?
- 7. There are 10 boys in the park. Four are on the playground. The rest are on the grass. How many are on the grass?

\_\_\_\_\_ flowers

\_\_\_\_ boys

# Problem Solving Lesson 8 8. Mark sees some frogs and turtles. He sees 5 animals in all. There is 1 more frog than there are turtles. How many of each kind of animal does Mark see? \_\_\_\_\_frogs \_\_\_\_\_turtles

78 seventy-eight LXXVIII

39 39