



Chapter 4 Addition and Subtraction with Place Value

In this chapter, children explore addition and subtraction through the use of base-ten blocks. They learn the concepts behind the algorithms for adding and subtracting multi-digit numbers. Children also explore the relationship between money and the place-value system as they find the fewest coins- or coins and bills- for an amount of money as they solve money problems.

About the Math

- Children use the concept of adding “likes to likes” along with the concept of “no more than 9 of any one kind of block.” These principles come into play in all addition and subtraction algorithms.
- Cross Number Puzzles demonstrate that addition works in any order with any grouping.
- Two-digit numbers are composed of tens and ones, and three-digit numbers are composed of hundreds, tens, and ones.
- Place-value concepts can be applied to money by using dimes and pennies to represent tens and ones.

*****see attached for more information about Cross Number Puzzles*****

Vocabulary

multiple



Number of Eyes	0	2	4	6	8	10
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fewest

Ways to Make 24¢

D	P	Number of Coins
0	24	24
1	14	15
2	4	6

2 dimes and 4 pennies are the fewest coins that can be used to make 24¢.

Literature Connection

The Go-Around Dollar

By Barbara Johnston Adams

Math Concept: identifying one dollar



In the Car Activities

- ★ Practice adding and subtracting multiples of 10 from 100.
- ★ Say the partner of a given number to equal 10. Do the same for 20.

Family Fun

Adding Dimes and Pennies

Work with your child to practice addition using dimes and pennies.

- Gather a bunch of dimes and pennies for this activity.
- Each of you takes a handful of pennies and dimes and puts them in front of you.
- Work together to count each handful of coins and write the amounts on a sheet of paper.
- Combine the coins from both handfuls.
- Work together to find how much money there is in all. If you have 10 pennies, trade them for a dime. Try counting the dimes first and then adding the pennies. Write the total.
- Repeat with other handful of coins.

43¢
38¢
81¢

Cross Number Puzzles

Work with your child to complete a Cross Number Puzzle.

- A Cross Number Puzzles is like a crossword puzzle for numbers.
- Together, complete this puzzle by adding across and down. For each row, write the sum of the two numbers in the shaded box. Do the same for each column. In the corner shaded box, write the sum of the rows and columns. The sum of the columns should always be the same as the sum of the rows!

4	8	
6	2	

4	8	12
6	2	8
10	10	20