

Addition Facts and Properties

pages 1–2

Getting Started

Objective

- To review addition facts and properties

Vocabulary

addend, sum, Commutative Property, Associative Property, Identity Property

Materials

addition fact cards; counters

Warm Up + Mental Math

Have students find each sum.

- $3 + 4$ (7)
- $2 + 7$ (9)
- $5 + 1$ (6)
- $8 + 2$ (10)
- $3 + 2$ (5)
- $6 + 2$ (8)
- 4 and 4 (8)
- 4 and 2 plus 1 (7)

Warm Up + Activity

Use addition fact cards to review basic addition facts through $9 + 9$. Divide the class into two teams. A team's score is the number of facts answered correctly in three minutes.

Teach

Introduce the Lesson Ask a student to read the problem aloud and tell what is to be solved. (*how many games the Cubs played*) Have students tell what they need to know to solve the problem. (*number of games won and lost*) Ask where this information can be found. (*in the chart*) Have students tell what facts are known. (*The Cubs won 9 games and lost 6 games.*) Have students complete the sentences as they read aloud with you to solve the problem.

Develop Skills and Concepts Recall that addition involves joining together two or more groups to find a total. Stress that the groups being joined are called *addends* and that the total is the *sum*. The groups need not be the same size. Write an addition fact in both vertical and horizontal form. Discuss each of the addition properties. Have students write examples of each property on the

Name _____

Basic Facts

Addition Facts and Properties

The Cubs won the Little League District Championship. How many games did they play?

We want to know how many games the Cubs played.

We know the Cubs won 9 games and lost 6 games.

To find the total games played, we add the games won and the games lost. We add 9 and 6.

$$\begin{array}{r} 9 + 6 = 15 \\ \text{addends} \qquad \text{sum} \end{array}$$

The Cubs played 15 games in all.

Understanding the basic properties of addition makes it easier to find sums.

Commutative Property
Two numbers can be added in any order without affecting the sum. Addends can be grouped in any order without affecting the sum.

Associative Property
Addends can be grouped in any order without affecting the sum.

Identity Property
When zero is one of two addends, the sum is the other addend.

Getting Started

Find each sum.

$$1. 4 + 4 = \underline{10}$$

$$2. 8 + 8 = \underline{16}$$

$$3. 9 + 0 = \underline{9}$$

$$4. 7 + 1 = \underline{8}$$

Add. Check by adding in the reverse order.

$$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$$

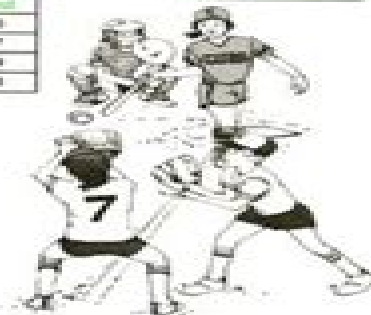
$$\begin{array}{r} 7 \\ + 0 \\ \hline 7 \end{array}$$

Lesson 1-1 • Addition Facts and Properties

Lesson 1-1

It's Algebra!

	Won	Lost
Cubs	9	6
Pharos	8	7
Cards	5	9
Giants	6	8



board. Reinforce the properties by having students use counters to demonstrate these properties:

$$2 + 4 = 4 + 2$$

$$7 + 0 = 7$$

$$(3 + 1) + 5 = 3 + (1 + 5)$$

It's Algebra! The concepts in this lesson prepare students for algebra.

Practice

Have students complete all the exercises. Before they begin, be sure students understand the directions for each section. Remind them to include the units with their answers to each word problem. Then, have students complete the page independently.

Mastering Math Level F Teacher Guide

CO Houle



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All Students Can Succeed Jean Stockard, Timothy W. Wood, Cristy Coughlin, Caitlin Rasplica Khoury, 2020-07-09 Based on more than ten years of research All Students Can Succeed presents a comprehensive review of research related to Direct Instruction DI a highly structured method of teaching based on the assumption that all students can learn if given appropriate instruction The authors identify over 500 research reports published over the last 50 years and encompassing almost 4 000 effect sizes no doubt the largest meta analysis of any single method of instruction ever published Extensive statistical analyses show that estimates of DI s effectiveness are consistent over time with different research approaches across different school environments students from all types of backgrounds different comparative programs and both academic achievement and non academic outcomes including student self confidence Effects are substantially stronger than those reported for other curricula When students have DI for more time and when teachers implement the programs as designed the effects are even stronger Results indicate that DI has the potential to dramatically change patterns of student achievement in the United States In an even handed style accessible to policy makers educators and parents the authors describe the theory underlying DI its development use and history systematically examine criticisms and discuss policy implications Extensive appendices provide detailed information for researchers **Mastering Math Level F Teacher's Edition , Resources in Education** ,2000 Children's Books in Print R R Bowker Publishing, Bowker, 1999-12

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Table of Contents Mastering Math Level F Teacher Guide

1. Understanding the eBook Mastering Math Level F Teacher Guide
 - The Rise of Digital Reading Mastering Math Level F Teacher Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Math Level F Teacher Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Math Level F Teacher Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Math Level F Teacher Guide
 - Personalized Recommendations
 - Mastering Math Level F Teacher Guide User Reviews and Ratings

-
- Mastering Math Level F Teacher Guide and Bestseller Lists
5. Accessing Mastering Math Level F Teacher Guide Free and Paid eBooks
 - Mastering Math Level F Teacher Guide Public Domain eBooks
 - Mastering Math Level F Teacher Guide eBook Subscription Services
 - Mastering Math Level F Teacher Guide Budget-Friendly Options
 6. Navigating Mastering Math Level F Teacher Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Math Level F Teacher Guide Compatibility with Devices
 - Mastering Math Level F Teacher Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Math Level F Teacher Guide
 - Highlighting and Note-Taking Mastering Math Level F Teacher Guide
 - Interactive Elements Mastering Math Level F Teacher Guide
 8. Staying Engaged with Mastering Math Level F Teacher Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Math Level F Teacher Guide
 9. Balancing eBooks and Physical Books Mastering Math Level F Teacher Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Math Level F Teacher Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mastering Math Level F Teacher Guide
 - Setting Reading Goals Mastering Math Level F Teacher Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mastering Math Level F Teacher Guide
 - Fact-Checking eBook Content of Mastering Math Level F Teacher Guide
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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