



CONTENTS

ADDITION

Make Your Own Problems.....	1
A Tower of Adding.....	2
'Sum' Fun.....	3
Adding 1.....	4
Adding Fun.....	5
More Adding Fun.....	6
Ten is Special.....	7
Addition Designs.....	8
Counting Up.....	9
More Counting Up.....	10
Number Partners.....	11
'Sum' Looping.....	12
'Sum' Boxes.....	13
Hidden Sums of 7.....	14
Hidden Sums of 8.....	15
Hidden Sums of 9.....	16
Hidden Sums of 10.....	17
'Sum' Thoughts.....	18

SUBTRACTION

Stacks of Differences.....	19
Make Your Own Subtraction Sentences...20	
Taking Away.....	21
More Taking Away.....	22
It's Your Choice!.....	23

A Difference of 1.....	24
Looping Differences.....	25
Differences in Boxes.....	26
Hidden Difference of 2.....	27
What Could Each Problem Be?.....	28
What Could Each Sentence Be?.....	29
Sentences to Finish.....	30

ADDITION AND SUBTRACTION

Watch the Signs!.....	31
Looping Sums or Differences.....	32
Sums and Differences in Boxes.....	33
Number Families.....	34
Looping Number Families.....	35
Adding Several Numbers.....	36
'Sum' Loops.....	37
Addition Puzzlers.....	38
Many Ways to Make 8.....	39

USING <, >, =

Circle the Numbers.....	40
Circle More Numbers.....	41
Sentences to Finish.....	42
Answer Key.....	43





This book is designed to help children look at numbers and number concepts from a different perspective. Children will, therefore, gain a deeper understanding of these and strengthen their number skills.

The more familiar students are with numbers and the relationships between numbers, the more sense maths will make. The activities in this book will help children feel comfortable with numbers by letting the children make up the problems or parts of them. For example:

- Children can use what they know about subtraction to complete problems like these

$$\begin{array}{r} \square \\ - \square \\ \hline \square \end{array}.$$

- A child who is still getting used to smaller numbers might write this problem

$$\begin{array}{r} \square 3 \\ - \square 1 \\ \hline \square 2 \end{array}$$

This child may need to use cubes or other manipulatives while working on the problems.

- A child who is comfortable with larger numbers might write

$$\begin{array}{r} \square 26 \\ - \square 2 \\ \hline \square 24 \end{array} \quad \text{or} \quad \begin{array}{r} \square 46 \\ - \square 2 \\ \hline \square 44 \end{array}.$$

This child is ready to look for patterns when adding or subtracting numbers.

- Conversely, a child who writes

$$\begin{array}{r} \square 5 \\ - \square 6 \\ \hline \square 1 \end{array}$$

is showing you that she or he needs help with writing subtraction problems.

This child may benefit from working with manipulatives while working on the problems.

You may want to introduce a page to your class and do a few problems together to get the children started, or you may want to let them *try a page on their own or with a partner*, and then *sum up the class's findings later*, encouraging them to look for patterns and to generalise. *(Children need opportunities to talk about their answers and the patterns they notice.)*

At first some children may be confused by problems that do not have just one right answer, but eventually most will enjoy creating their own problems. Children will also enjoy the puzzles that ask them to look for hidden sums, differences or number families. Children will appreciate interesting ways of 'practising the facts' instead of page after page of fill-in-the-answer problems.

As you use these pages you may find that some children need more practice with the idea of a particular page. In many cases, it is fairly easy for you to make another similar page, substituting different numbers.

The contents of this book are organised by operations and size of numbers. You will probably want to use the pages throughout the year, a few at a time, as you introduce new operations and higher numbers. You will enjoy seeing the children thinking more mathematically, writing their own problems, and looking for all the possible answers to a given problem. The children will enjoy the change of pace these pages provide for them and will grow in their understanding of maths while having fun.

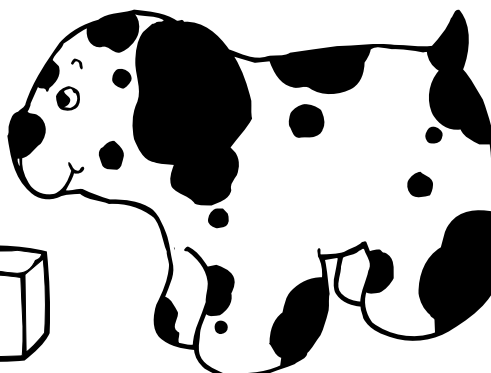
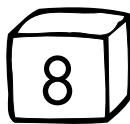
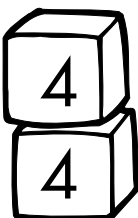
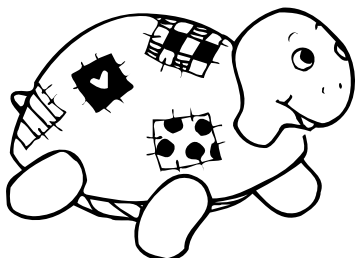




Make Your Own Problems

Name _____

▲ Make each addition problem different.



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

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + \square \\ \hline \square \end{array}$$





A Tower of Adding

Name _____

▲ Make each sentence different.

Two towers of eight rectangular blocks each. Each block contains a simple addition equation with blank lines for numbers: $___ + ___ = ___$.

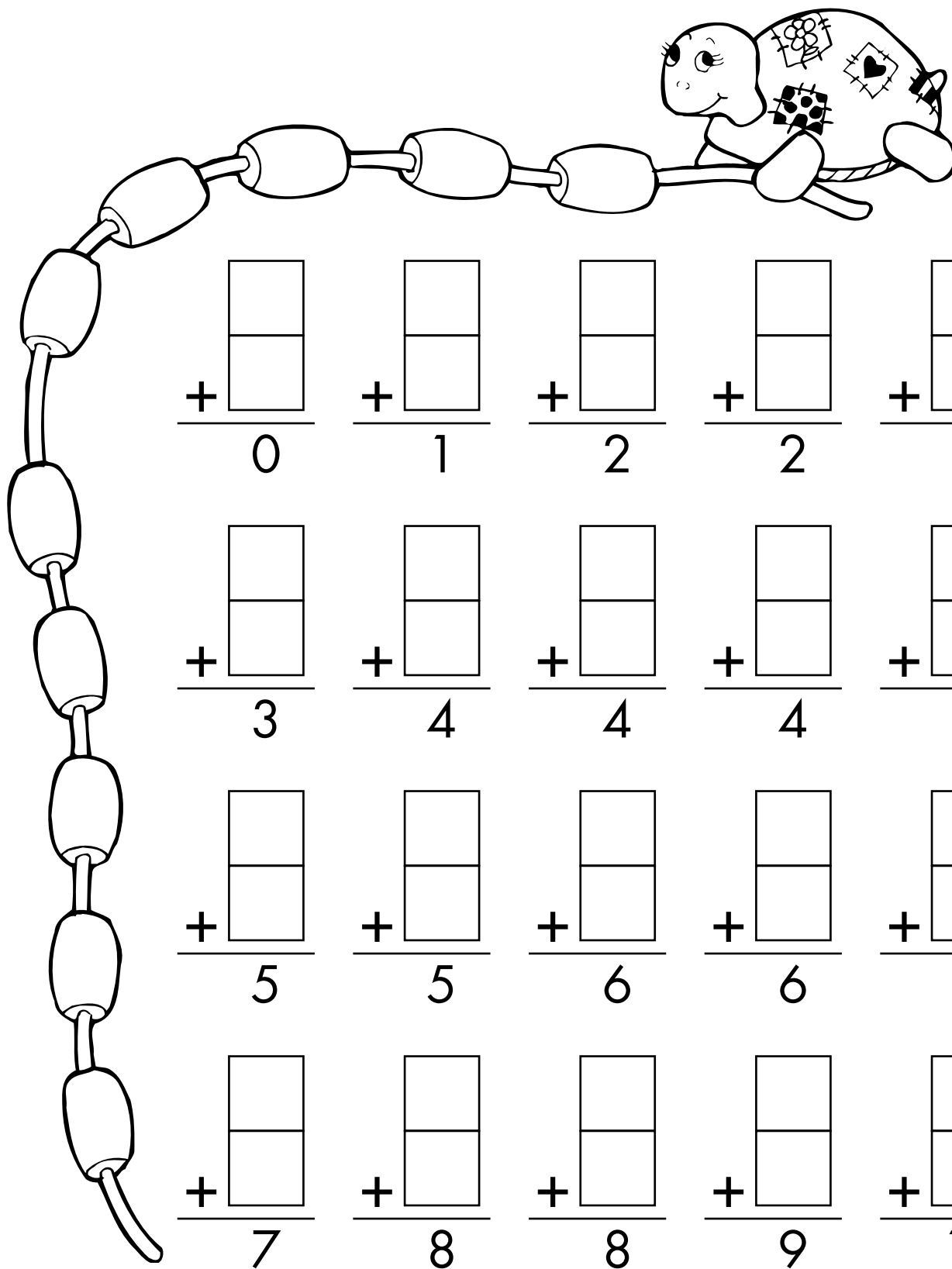




'Sum' Fun

Name _____

▲ Write a different problem for each answer.



$\begin{array}{r} \square \\ + \square \\ \hline 0 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 1 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 2 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 2 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 3 \end{array}$
$\begin{array}{r} \square \\ + \square \\ \hline 3 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 4 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 4 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 4 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 5 \end{array}$
$\begin{array}{r} \square \\ + \square \\ \hline 5 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 5 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 6 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 6 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 7 \end{array}$
$\begin{array}{r} \square \\ + \square \\ \hline 7 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 8 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 8 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 9 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 10 \end{array}$

