



Addition

# Who Ate all the Pies?

Number and Algebra



Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

## AUSTRALIAN CURRICULUM: MATHEMATICS

<b>Strand:</b>	Number and Algebra
<b>Sub-strand:</b>	Number and place value
<b>Descriptor:</b>	Explore the connection between addition and subtraction

### MATHS WORDS

one, two, three, four, five, six, seven, eight, nine, ten, add, number facts, counting

### INFORMATION FOR PARENTS OR CAREGIVERS

Helping your child learn to read is a rewarding and enjoyable experience for both you and your child. Here are some ways you can help your child with their reading.

#### BEFORE READING

- Introduce the book; read the title and look at the pictures. Ask your child if they know about adding and subtracting.
- Refer to the maths words above. Discuss each word and its meaning. These words will appear in this book.

#### DURING READING

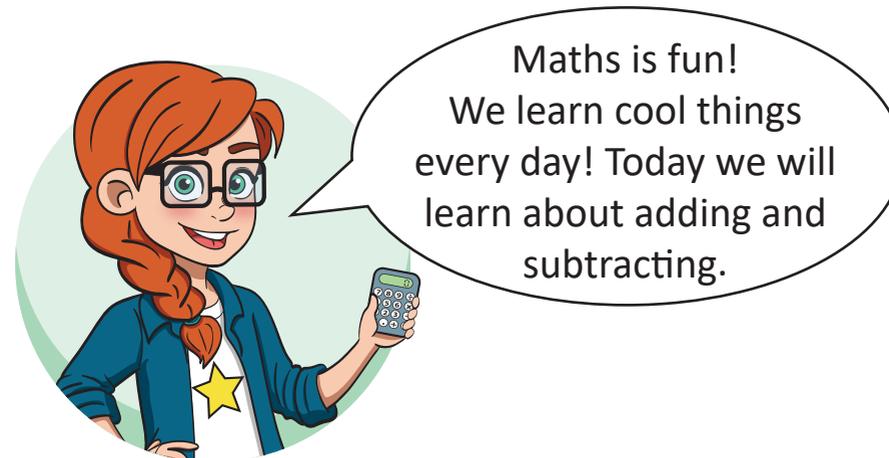
- At this level, your child should attempt to read their home reader on their own. They may be unsure of some words. Encourage them to break these words down into their individual sounds, blending them together from left to right.
- Stop your child on the pages where Millie the Mathematician appears. Discuss the maths vocabulary and interesting information presented.

#### MATHS CONCEPTS IN THIS BOOK

An important goal of the early years of the *Australian Curriculum: Mathematics* is helping children develop an instant recall of basic number facts. Developing fast recall of basic number facts is important in the early years of mathematical development, as it simplifies the cognitive demand of more complex mathematical operations in later years.

In this book, the concept of the inverse relationship between addition and subtraction is introduced for numbers up to 10. For example, students begin to understand that if **eight** 'plus' **two** 'equals' **ten**, then **two** 'plus' **eight** also 'equals' **ten** (i.e.  $8 + 2 = 10$ ;  $2 + 8 = 10$ ). They further develop the understanding that **ten** 'take away' **two** 'equals' **eight**; and that **ten** 'take away' **eight** 'equals' **two** (i.e.  $10 - 2 = 8$ ;  $10 - 8 = 2$ ).

Instant recall and basic addition and subtraction of numbers up to 10, initially, and then up to 20 throughout year 1 and year 2 leads to increased fluency and accuracy in later years.



# Who Ate all the Pies?

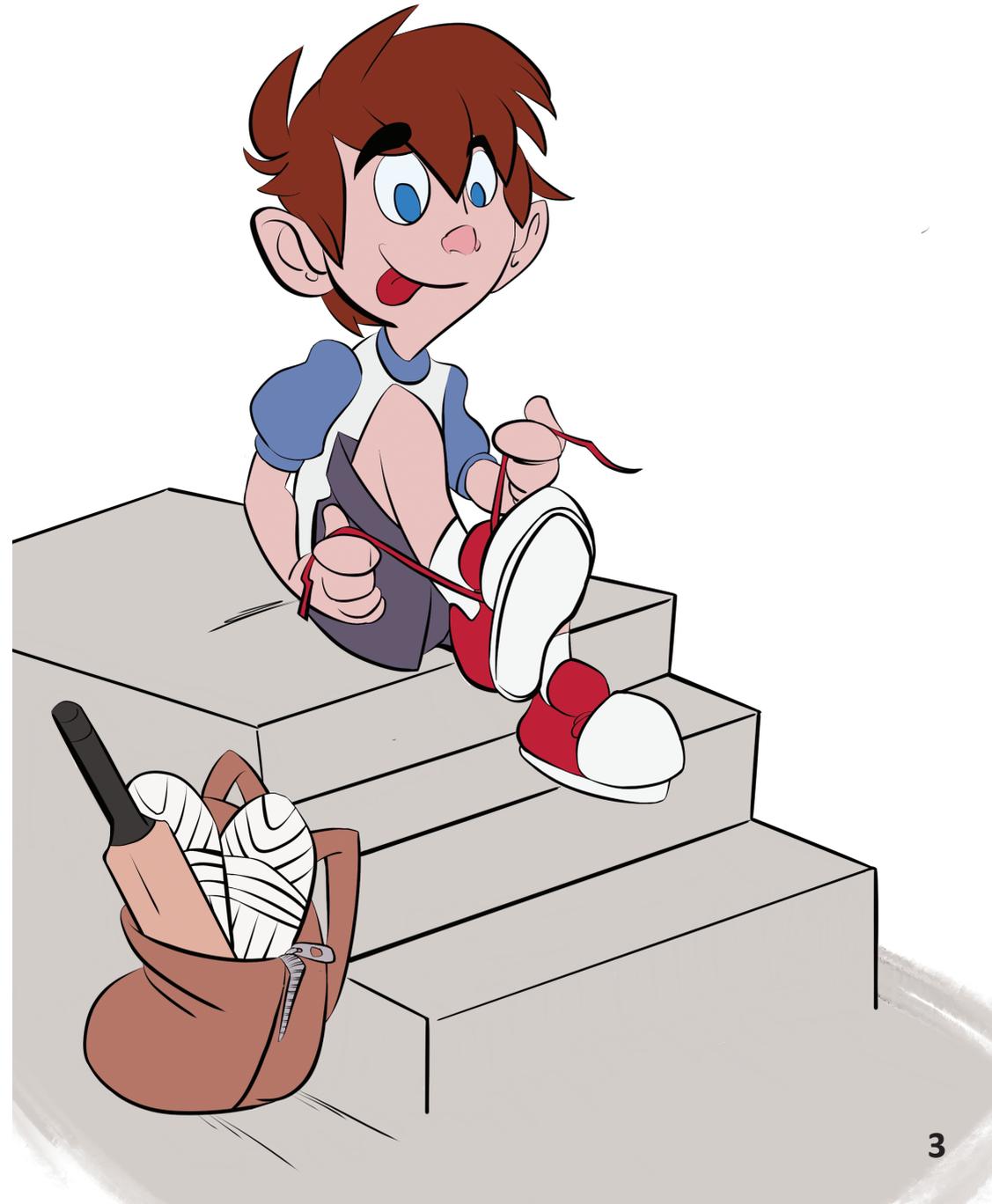


Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

David is a busy boy. He is always running late, which makes his friends cross.

“I will not be late today,” thought David as he got ready to play at the park.



Walking past the kitchen, David smelled something yummy.

David counted ten pies on the table. David loved pies and was always hungry, so he ate one.



David closed the kitchen door and the kitchen window. The pies were safe!

Then David remembered his friends at the park. He was going to be late again!



WOW! Adding and subtracting is cool! And so is maths.

## AFTER READING

Ask your child what the book was about and encourage them to re-tell it in the order in which it appeared.

Discuss the following with your child to assist them to understand the content of the book:

- How many pies did David eat?
- How many pies, in total, did David buy from Dale the Baker?
- What could David have done so he wasn't late?
- In what types of jobs would you do lots of adding and subtracting?

First published in Australia in 2018  
Griffith University

Copyright © Sara MacDonald, Randall Hall, Richard John 2018

### Reproduction and communication

Apart from any fair dealing for the purposes of private study, research, criticism or review, as permitted under the Act, no part of this book may be reproduced, stored in a retrieval system, communicated or transmitted in any form or by any means without prior written permission. Inquiries should be addressed to the publisher.

### National Library of Australia Cataloguing-in-Publication data:

MacDonald, Sara; Hall, Randall; John, Richard

### Who Ate all the Pies?

ISBN: 978-0-6484079-6-6

Printed in Australia

### Acknowledgements

Series Illustrators: Carissa Harris, James Elms, Gemma Duffill

Series Graphic Artist: Carissa Harris

Cover Design: Sam Dunn

Series Consultants: Samantha Hutchinson, Gayle Brent, John Robertson

Images: Shutterstock

### Community Partners

The authors gratefully acknowledge the support of the following people and organisations for their assistance in the production and distribution of this series:

Jock and Beverly McIlwain, Mermaid Waters, Queensland, Australia

Griffith University, Queensland, Australia

Rotary International, Australia, District 9640

P&Cs Qld



# Who Ate all the Pies?

Number and Algebra

Book 16 of 24

In this book, Millie the Mathematician helps us learn about the relationship between addition and subtraction for numbers up to ten. When the 10 pies in the kitchen start to be eaten, David needs to replace them with the correct number of pies. From this, we learn that whichever way two numbers are added together, they produce the same answer. We also explore the relationship between addition number facts and subtraction.

**Australian Curriculum:** All books in the 'Millie the Mathematician' series are written for the *Australian Curriculum: Mathematics* and align directly to what children learn in the classroom. This book addresses content from the *Number and Algebra* strand within the *Number and place value* sub-strand. The specific Australian Curriculum content descriptor addressed is: "Explore the connection between addition and subtraction."



WOW!  
Adding and  
subtracting is cool!  
And so is maths.

## PARENTS, READ ALONG WITH MILLIE!

Throughout this book Millie the Mathematician tells us interesting mathematical facts. Use these prompts to encourage further interest and discussion about **adding and subtracting** with your child.

**Suggested Reading Level:**



PM 16-20, Fountas and Pinnell I-K

Rotary  
District 9640



Griffith  
UNIVERSITY  
Queensland, Australia

P&CQLD  
Supporting State Schools

ISBN 978-0-6464079-6-6



9 780648 407966

Griffith University | Queensland, Australia  
[www.milliethemathematician.com.au](http://www.milliethemathematician.com.au)