

# max maths primary

A SINGAPORE APPROACH

Journal

1



ALICE HANSEN

# max maths primary

A SINGAPORE APPROACH



ALICE HANSEN

SAMPLE



Macmillan Education  
4 Crinan Street  
London, N1 9XW  
A division of Macmillan Publishers Limited

Companies and representatives throughout the world

www.macmillanic.com

ISBN 978-1-380-03049-8 AER

Text © Macmillan Publishers Limited 2018

Design and illustration © Macmillan Publishers Limited and Star Publishing Pte Ltd

Written by Alice Hansen

The author has asserted her right to be identified as the author of this work in accordance with the Copyright, Design and Patents Act 1988.

First published 2018

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publishers.

Original design by John Dickinson and Macmillan Education

Page layout by Tek-Art

Illustrations by Aleksandar Sotirovski and Pablo Gallego

c/o Beehive Illustration Agency

Picture research by Fiona Gartland/Out of House

Cover design by Macmillan Education

Cover illustration by Star Publishing Pte Ltd

Cover photography: Shutterstock/Camilo Torres

Cover picture research by Susannah Jayes

## Acknowledgements

The authors and publishers would like to thank the following for permission to reproduce their images:

**p2** Studio 8 (tl), Macmillan/Paul Bricknell (tr), Bananastock (b); **p12** Getty (t), Macmillan/Paul Bricknell (m), Macmillan Australia (b); **p21** Brand X (tl), John Foxx Images (tr), Getty (m); **p26** Bananastock; **p32** Photodisc (t), Getty/Photodisc (b); **p46** Stockbyte (mug), EyeWire/Getty (can), Macmillan (battery), Photoalto (gift box), Getty Images/iStockphoto Thinkstock Images/T. Popova (can), Photodisc/Getty (cube), Photodisc/Getty (megaphone), Getty (traffic cone), Brand X (ice cream), Getty (tennis ball), Getty Images/Science Photo Library RF/Leonello Calvetti (globe), Getty Images/iStockphoto Thinkstock Images/belchonock (basketball), Getty Images/PhotoDisc (container), Getty Images/Zocha\_K (book), Stockbyte (box), Pixtal (pyramid), Getty (glass pyramid); **p51** PhotoDisc/Getty (l), PhotoDisc (m), (r); **p62** Getty Images/iStockphoto Thinkstock Images/czamfir (t), Getty Images/Craig P. Jewell (leaf), Stockbyte (pencil), EyeWire/Getty (b); **p67** Macmillan/Paul Bricknell (teddy), Getty Images/iStockphoto/eurobanks (car), Stockbyte (shoe) Getty Images/iStockphoto/eurobanks (hat), Stockbyte (pencil), Macmillan/Haddon Davies (pencil case); **p68** PhotoDisc/Getty Images (bird), Getty Images Thinkstock Images/Hemera Technologies (cage), PhotoDisc/Getty Images (cat), Photospin (rabbit); **p71** Getty Images/Dorling Kindersley RF/Dave King (teddy), Macmillan/Paul Bricknell (doll), Stockbyte Royalty Free Photos (car); **p72** Getty Images/iStockphoto/scisetalfio (bottle), iStockphoto/scorpp (raspberries), Up the Resolution (grapefruit), Getty Images/iStockphoto/scanrail (phone); **p73** Getty Images/eli\_asenova (orange), PhotoDisc (coconut), Getty Images/iStockphoto/Preto\_perola (strawberries), PhotoDisc (kitten), Getty (cub), PhotoDisc/Getty Images (duckling)

# Contents

<b>Helping your child at home</b>	<b>iv</b>	<b>5 Length</b>	<b>56</b>
<b>1 Numbers up to 20</b>	<b>1</b>	Comparing length	56
Counting to 20	1	Measuring length	61
Number patterns	6	<b>6 Mass</b>	<b>66</b>
<b>2 Addition to 20</b>	<b>11</b>	Comparing mass	66
Addition by counting on	11	Measuring mass in units	71
Number pairs	16	<b>7 Capacity</b>	<b>76</b>
<b>3 Subtraction within 20</b>	<b>21</b>	Comparing capacities	76
Subtraction by taking away	21	<b>8 Time</b>	<b>81</b>
Number sentence families	26	Reading a clock	81
Subtraction word problems	31	Months of the year	86
<b>4 Shapes</b>	<b>36</b>	<b>9 Money</b>	<b>91</b>
2D shapes	36	Exchanging money	91
Shape patterns	41	<b>10 Data handling</b>	<b>96</b>
3D shapes	46	Venn and Carroll diagrams	96
Line symmetry	51		

# Helping your child at home

Welcome to Max Maths Journal 1! This journal is designed to help you support your child with their mathematical learning, including the language of mathematics. It can be used either as part of the Max Maths scheme or as a standalone resource.

This journal provides opportunities for consolidation of school learning and reflection, so it is important to make sure your child has covered a topic at school before your child begins work on it in the journal. Typically, your child will be set exercises from the journal as homework by their teacher.

We recommend that when your child sits down to work on the journal, you are on hand to provide support, engage in discussion and explore the maths together. Some tasks in the journal require the direct involvement of a grown-up for discussion and you are expected to reflect with your child on their understanding at the end of each topic.

## Topic structure

Each topic begins with a scenario and related task that reflects key learning from the topic.

## Check your maths!

These tasks check your child's understanding of one or more of the key concepts in the topic.

## Practising my maths language

These activities are focused on practising new mathematical language connected to the topic. They often require discussion with an adult at home.

## From school to home

Opportunities for discussion, sharing and reflection on your child's learning. At the end of the topic, there is space for your child's teacher to comment on your child's learning experience.



# Numbers up to 20

## Counting to 20

We have been doing lots of counting.  
What things do you count at home?



How many children are coming to eat pancakes?

There are \_\_\_\_\_

## Check your maths!

These children are counting their toys. Have they counted them correctly?

Count each child's toys and explain any mistakes that they have made.



Jade says, "1, 2, 3, 4, 5, 6, 7. I have 7 toy trucks."



Han says, "1, 2, 3, 4, 5. I have 6 teddies."



Padma says, "One, two, three, four, five, six, seven, eight, nine, ten, ten-one, ten-two, ten-three. I have ten-three marbles."