mex maths primary





ALICE HANSEN

max maths primary

A SINGAPORE APPROACH

ALICE HANSEN



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

Companies and representatives throughout the world

www.macmillanic.com

ISBN 978-1-380-02485-5

Text © Macmillan Publishers Limited

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 Ltd
Illustrations by Tamara Joubert 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 by Shutterstock/RFV
Cover picture research by Susannah Jayes

Printed and bound in the UK

2022 2021 2020 2019 2018

10 9 8 7 6 5 4 3 2 1

Contents

Helping your child				of measurement	41
at	home	iv		Interpreting different	
1	Numbers up to 1000000	1		scales	46
	Place value	1	5	Statistics	51
	Number sequences			Probability	51
	including prime numbers	6	6	Position and movement	56
2	Addition and subtraction	11		Coordinates	56
		'' 7	Geometry	61	
	Mental addition and subtraction	11		Properties of quadrilaterals	61
	Mental addition and			Angles	66
	subtraction of near multiples	16	8	Fractions	71
	Written addition and			Equivalent fractions	71
	subtraction	21		Reducing fractions	76
3	Multiplication and		q	Decimals	81
	division Multiplying by a 1-digit	26		The relationship between decimals and fractions	81
	number	26	10	Percentages	86
	Multiplying near		10		00
	multiples of 10	31		Finding percentages of numbers and shapes	86
	Dividing by 2- and 3-digit	. 1	11	Time	91
_	numbers	36		Time zones	91
4	Length, mass and capacity	41	12	Perimeter and area	96
	Converting between units			Calculating perimeter and area	96

Helping your child at home

Welcome to Max Maths Journal 6! 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.

Checkyour 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.

Frem school to home

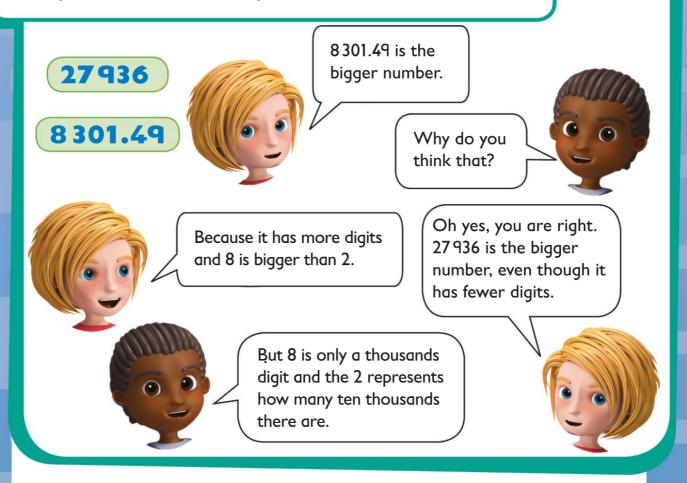
Opportunities for discussion, sharing and reflection on your child's learning. At the end of the topic, there is space for your child's teacher to comment on your child's learning experience.

Numbers up to 10000000

Place value

We have been reviewing what each of the digits in a number represents, for numbers up to a million.

We have also been learning what each digit represents in 1- and 2-place decimal numbers.



Explain to an adult in your own words why 8301.49 is less than 27936. Use words such as place value and digit.

Check your maths!

Name the value of each of the digits in this number:

3802719

- a What does zero represent?
- **b** Say the number that is two hundred thousand larger.
- **c** If you subtract two thousand, what will the number be?

Practising my

maths language

Let's think about decimals now. Match the decimal number with its correct name.

4	two hundredths
0.07	four tenths
0.04	two tens
20	seven ones
70	four tens
2	seven hundredths
40	four ones
0.2	four hundredths
0.7	two tenths
7	seven tenths
0.02	seven tens
0.4	two ones

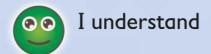
From school to home

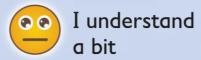
Find someone at home to talk to.

- 1 Show them your school work. Talk about some of your answers to the questions on numbers up to 1 000 000.
- Explain what you have learnt about numbers up to 1000000.
- Ask someone at home to help you complete the following:

What do you like about numbers up to 1000000?

b What was hard about numbers up to 1000000?









 I can explain the place of each digit in numbers up to 1000000.







 I can explain the value of each digit in numbers up to 1000000.







 I can explain what each digit represents in 1- and 2-place decimal numbers.







Ask an adult at home to read and sign this.

I have checked learning on this topic.

We have shared some understanding at home.

Signed _____

Date

Teacher comment

Date