

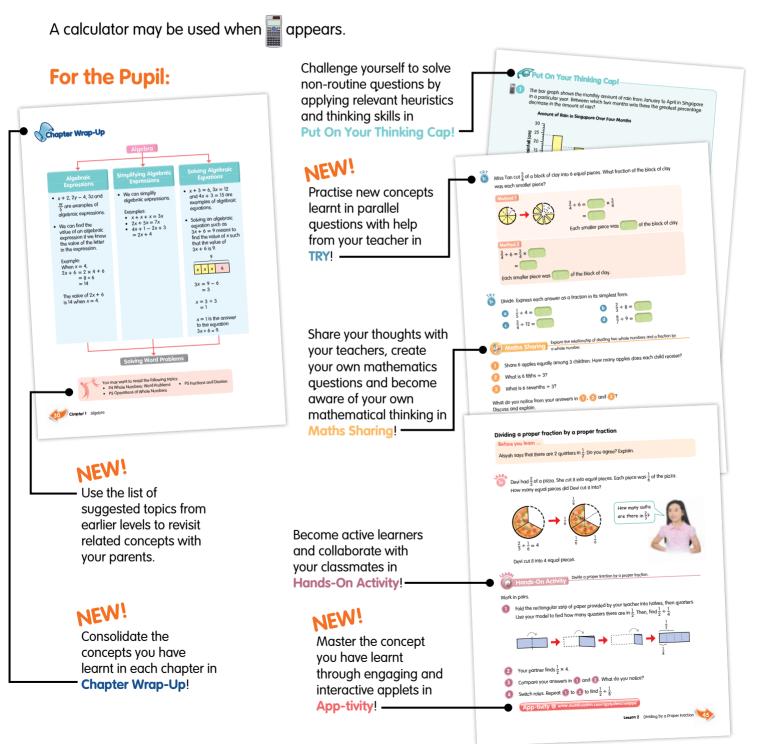
Dr Fong Ho Kheong • Gan Kee Soon • Chelvi Ramakrishnan



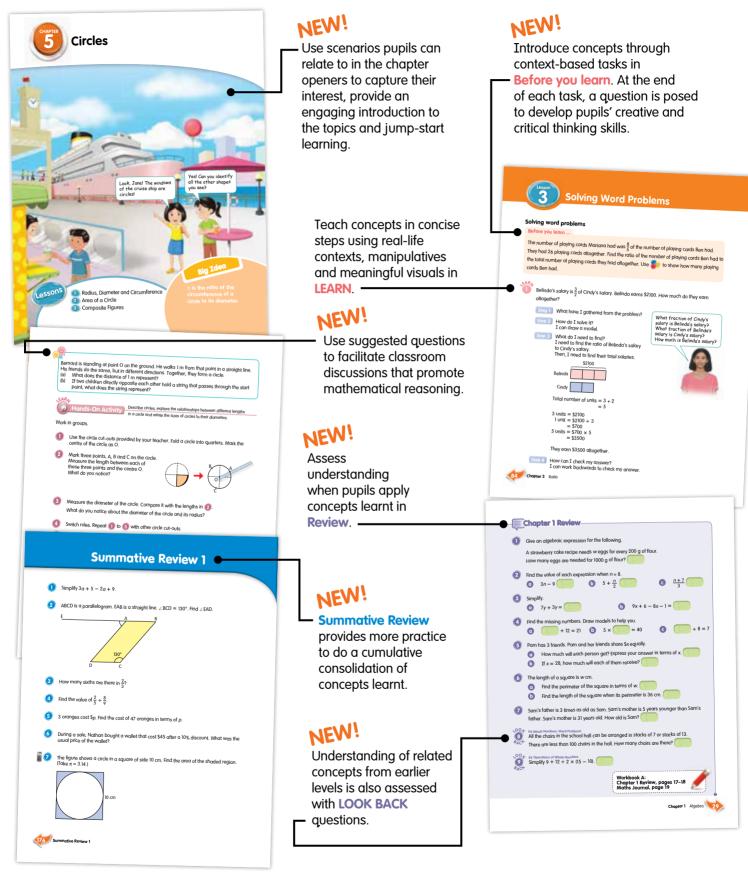
Preface

My Pals Are Here! Maths (3rd Edition) is a comprehensive, task-based and learner-centred programme designed to provide pupils with a solid foundation in mathematics and opportunities to become efficient problem solvers.

My Pals Are Here! Maths (3rd Edition) continues to make learning mathematics fun and rewarding through the use of engaging illustrations, photographs, hands-on activities and interactives that help reinforce and consolidate learning for pupils of different abilities.



For the Teacher:



CONTENTS

 Algebra Lesson 1 Using Letters to Represent Numbers Lesson 2 Evaluating Algebraic Expressions Lesson 3 Simplifying Algebraic Expressions Lesson 4 Solving Word Problems 	6 7 15 17 21
 2 Fractions Lesson 1 Dividing a Fraction by a Whole Number Lesson 2 Dividing by a Proper Fraction Lesson 3 Solving Word Problems 	32 33 39 49
 Ratio Lesson 1 Ratio and Fraction Lesson 2 Comparing Ratios Lesson 3 Solving Word Problems 	68 69 77 84

0

...

4 Percentage	106
Lesson 1 Finding Percentages	107
Lesson 2 Percentage Change	110
Lesson 3 Solving Word Problems	122
5 Circles	137
Lesson 1 Radius, Diameter and Circumference	138
Lesson 2 Area of a Circle	147
Lesson 3 Composite Figures	152
6 Angles in Geometric Figures Lesson 1 Finding Unknown Angles in Geometric Figures	164 165

Summative Review 1

Algebra

The first machine adds 3 to 12 to get 15. What do the other machines do?

IN

12

IN

15

IN

20

Lessons

What happens if I replace 12 with 30?

OUT

15

OUT

20

OUT

28

3

5

8

Using Letters to Represent Numbers
 Evaluating Algebraic Expressions

- 3) Simplifying Algebraic Expressions
- 4 Solving Word Problems

In algebra, a letter is used to represent an unknown number.

Big Idea

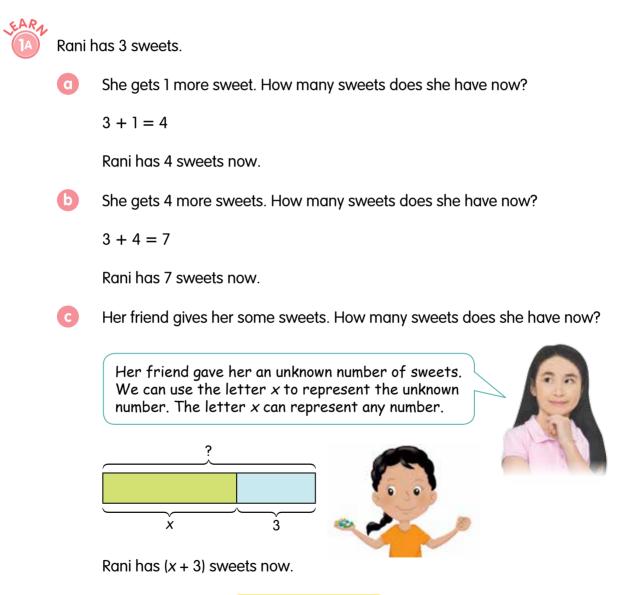


Using Letters to Represent Numbers

Using Letters to Represent Numbers

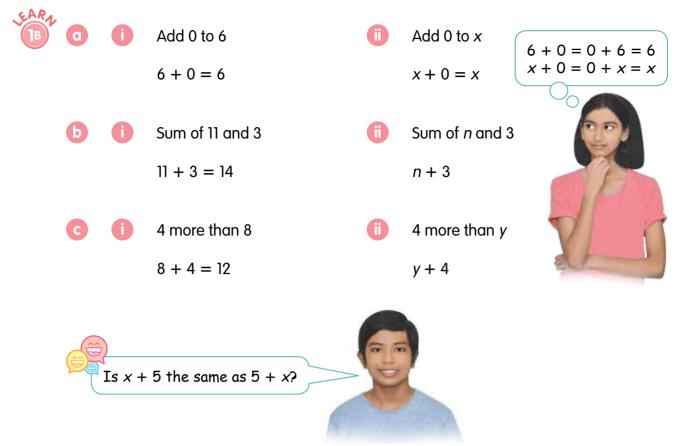
Before you learn ...

Ryan has some pencils. Ben has 5 more pencils than Ryan. Use the letter *x* to represent the number of pencils Ryan has. Write an expression in terms of *x* for the number of pencils Ben has.



x + 3 is an example of an **algebraic expression** in terms of x.







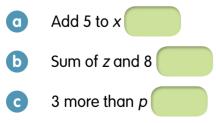
Mr Tan is the form teacher of Primary 6B. The pupils do not know his age.

Let Mr Tan be x years old now. Find Mr Tan's age in terms of x.

Description	Mr Tan's Age (Years)
Mr Tan's age now	x
Mr Tan's age 3 years from now	
Mr Tan's age 5 years from now	
Mr Tan's age 10 years from now	



Give an algebraic expression for each of the following.







Aiden has 20 cookies.

Tom has 5 cookies. How many more cookies does Aiden have than Tom?

20 - 5 = 15

Aiden has 15 more cookies than Tom.



a

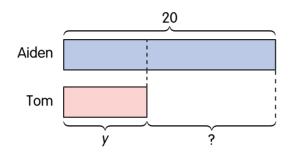
Tom has 12 cookies. How many more cookies does Aiden have than Tom?

20 - 12 = 8

Aiden has 8 more cookies than Tom.



Tom has y cookies. How many more cookies does Aiden have than Tom?



Aiden has (20 - y) more cookies than Tom.

20 - y is another example of an algebraic expression.

